

# Goodfellow

Serving The Needs of Science and Industry Worldwide

Au service de la Science et de l'Industrie dans le monde entier

Weltweiter Lieferant für Wissenschaft und Industrie

Metals and Alloys  
Métaux et Alliages  
Metalle und Legierungen

Ceramics  
Céramiques  
Keramiken

Polymers  
Polymères  
Polymere

Composites  
Composites  
Verbundwerkstoffe



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# Standard Price List for All Foils

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## Introduction

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Goodfellow is well known as a specialist supplier of small to medium size quantities of metals, alloys, ceramics, polymers and other materials to meet the research, development and specialist production requirements of science and industry worldwide. We realise that "small" means different things to different people, but we consider small to mean any quantity from a few grammes to a few kilos.

Goodfellow offers two distinct services to meet the requirements of our customers:

- The first meets the needs of our customers who need small quantities of products from our standard range of materials within 24-48 hours.
- The second service is for those who require larger quantities or further processing of our standard products or who need an item which falls within our general area of supply expertise.

The range of materials offered by Goodfellow is extensive, as are the forms in which the various products are available. This Catalog provides a detailed overview of our standard products which are available from stock. Full details of all of these items, including prices and technical information, can be found in our web Catalog at [www.goodfellowusa.com](http://www.goodfellowusa.com).

### Materials

#### *Metals and Alloys*

Goodfellow supplies virtually all of the pure metals from Aluminum to Zirconium as well as a comprehensive range of alloys. Most are available in a variety of forms, including rod, wire and foil. The Catalog details those materials which are available as standard products from stock. Custom-made items are also available, so please contact us if you are unable to identify the item you require.

#### *Ceramics*

The ceramic materials offered by Goodfellow have been carefully chosen and include both the established as well as more recently developed products. All are available as either standard or custom-made products in a variety of forms and sizes. The Catalog details those items which are

available from stock. For ceramic components made to customer drawings, our Ceramic and Glass Division would be delighted to help. Please visit [www.goodfellow-ceramics.com](http://www.goodfellow-ceramics.com) for further information.

#### *Polymers*

The range of polymers supplied by Goodfellow is broad and includes both the familiar as well as some of the more unusual or recently developed materials. The Catalog details those items which are available from stock; please contact us if you are unable to find the item you specifically require.

#### *Compounds & Intermetallics*

Goodfellow can supply aluminides, borides and silicides as well as other intermetallics and compounds. The majority of these items are made to order, and the Catalog details those which are available. Please contact us with details of your requirements.

#### *Composites*

Some examples of these materials are listed in the Catalog. As some of these are manufactured on a custom-made basis, please contact us with details of your requirements.

#### *Glasses*

Goodfellow offers two distinct types of glass products. The first are generally silica-based and transparent. Generally, these products are made to order for customers, so we do not list them in our Catalog, however, they are available through the Goodfellow Ceramic and Glass Division. Please contact us with your requirements.

The second type of glass product is commonly referred to as "metallic glasses" or "glassy metals". In contrast to crystalline metals and alloys with highly ordered atomic structures, these are non-crystalline (amorphous) metals or, more usually, alloys. Our Catalog details those glassy metals which are available from stock; please contact us if you are unable to find the item you specifically require.

**Product Descriptions**



**Bar**

A straight length of rectangular, square or oval section material.

**Tolerances**

Section dimensions:	≤ 10mm	± 10%
	> 10mm	± 1mm
Length:	< 100mm	± 1mm
	≥ 100mm	+ 5% / -1%



**Bolt**

A threaded pin that can be screwed into a nut or a tapped hole to fasten items together. Bolts are available with different head styles and also in metric and inch-threaded sizes.

**Tolerances**

See item



**Chopped Fiber**

Fibers cut into short lengths called cut, staple or chopped fiber.

**Tolerances**

Fiber diameter:	± 25%
Number of strands:	± 10%
Tex number:	± 10%
Length:	+ 5% / -1%



**Crucible**

A vessel in which other materials may be heated or melted, usually at high temperatures.

**Tolerances**

Height:	± 10%
Inside Dimensions:	± 10%
Outside Dimensions:	± 10%



**Fabric**

Woven fabrics are made by the regular interlacing of two arrays of yarns at right angles to each other, these being referred to as the warp and weft (see also Non-woven fabric).

**Tolerances**

Fabric thickness:	± 25%
Number of yarns:	± 10%
Tex number:	± 10%
Size (linear dimension):	< 100mm ± 5mm
	≥ 100mm ± 5%



**Fiber**

Yarns or tows consisting of several approximately parallel individual filaments, each filament usually being smaller in diameter than a monofilament. Yarns contain a defined number of filaments, typically three to several hundred; tows contain thousands of filaments whose number is only defined approximately. Both are primarily specified by their linear density measured in "tex", the weight in grams of a 1km length of material.

**Tolerances**

Fiber diameter:	± 25%
Number of strands:	± 10%
Tex number:	± 10%
Length:	+ 5% / -1%



**Film**

A non-metallic sheet material with a thickness < 0.5mm.

**Tolerances**

Thickness:	± 20%
Size (linear dimension):	< 100mm ± 1mm
	≥ 100mm + 2% / -1%



**Flake**

Flat, irregularly shaped pieces of material. A maximum flake size is indicated but individual flakes may vary greatly in size.

**Tolerances**

Dimensions shown are nominal

**Product Descriptions**



**Foam**

A low density, permeable structure of cells and continuous ligaments offering a high surface area to volume ratio, and also a high strength to weight ratio. Owing to the nature of this material, dimensions are nominal.



**Foil**

Thin sheets of pure metal and metal alloys. Due to their fragile nature, some foils are coated on one side with an acrylic or polyester support. Where foils are supported they are indicated in the detailed item description.

**Tolerances**

Thickness: < 0.010mm ± 25%  
 0.01-0.05mm ± 15%  
 > 0.050mm ± 10%  
 Size (linear dimension): < 100mm ± 1mm  
 ≥ 100mm + 2% / -1%



**Granule**

Pellets of an approximately regular shape. Granules may vary in size and, therefore, the dimensions stated are nominal. In addition, the shape of a granule may vary from item to item.

**Tolerances**

Dimensions shown are nominal



**Honeycomb**

A cellular structure similar in appearance to natural honeycomb. Owing to the nature of this material, dimensions are nominal.



**Insulated Wire**

A single or multiple flexible strand of metal or alloy with an insulating sheath.

**Tolerances**

Wire diameter: ± 10%  
 Length: + 5% / -1%  
 Insulation thickness: Nominal values only



**Laminate**

Layers of material which have been bonded together by the use of heat, pressure and, possibly, adhesive.

**Tolerances**

Thickness: ± 10%  
 Size (linear dimension): ≤ 100mm ± 1mm  
 > 100mm + 2% / -1%



**Lump**

A solid piece of material with no defined shape.

**Tolerances**

Dimensions shown are nominal



**Mesh**

Mesh is available as either a woven wire or electroformed product; in all cases, the quoted aperture sizes are nominal. Wire mesh: a material which is woven from metal wires to provide a thin grid with a regular series of holes. Electroformed mesh: a product made by electroplating the mesh geometry through a mask onto a substrate which is subsequently etched away.

**Tolerances**

Thickness: woven: ± 10%  
 electroformed: ± 20%  
 Wire diameter: ± 10%  
 Size (linear dimension): < 100mm ± 1mm  
 ≥ 100mm + 2% / -1%



**Metallized Film**

Film which is coated with a metal. The thickness of the metal is measured and described in terms of the material's specific electrical resistance in ohms per square.

**Tolerances**

Thickness: ± 10%  
 Size (linear dimension): < 100mm ± 1mm  
 ≥ 100mm + 2% / -1%

**Product Descriptions**



**Microfoil**

An extremely thin sheet of metal or alloy mounted on a permanent support. This support **cannot** be removed without destroying the Microfoil.

**Tolerances**

Thickness:  $\pm 30\%$   
 Size:  $\pm 20\%$



**Microleaf**

An extremely thin sheet of metal mounted on a removable support. Microleaf is not available for metals which are too brittle to be free standing.

**Tolerances**

Thickness:  $\pm 30\%$   
 Size:  $\pm 20\%$



**Monofilament**

A single strand of a non-metallic material.

**Tolerances**

Diameter:  $\pm 20\%$   
 Length:  $+ 5\% / -1\%$



**Non-Woven Fabric**

Non-woven fabrics are made by methods other than weaving or knitting, the yarns and fibers being held together, often quite loosely, by means other than geometric interlacing. Due to the open and porous nature of this material, all other dimensions are nominal.

**Tolerances**

Size (linear dimension):  $< 100\text{mm} \quad \pm 5\text{mm}$   
 $\geq 100\text{mm} \quad \pm 5\%$



**Nut**

Generally a flat piece of material with a threaded hole which can be screwed onto a bolt to fasten items together. Nuts typically have a hexagonal external shape. Nuts are available in metric and inch-threaded sizes.

**Tolerances**

See item



**Powder**

Small particles with an approximately defined size range. Those materials described as alloy precursors are not true alloys - they are made by sintering a blend of powders of the component metals to achieve alloying by diffusion. The resultant cake is ground and sieved to the required particle size range. Unless otherwise stated, the particle sizes shown are for guidance only. We do not guarantee either any particular size distribution between the quoted minimum and maximum sizes, or a specific particle shape.

**Tolerances**

Dimensions shown are nominal



**Rod**

A straight length of circular section material.

**Tolerances**

Diameter:	$\leq 10\text{mm}$	$\pm 10\%$
	Polymer	$+ 20\% / -10\%$
	Ceramic	$+ 20\% / -10\%$
$> 10\text{mm}$		$\pm 5\%$
	Ceramic	$+ 20\% / -10\%$
	Polymer	$+ 20\% / -10\%$
Length:	$< 100\text{mm}$	$\pm 1\text{mm}$
	$\geq 100\text{mm}$	$+ 5\% / -1\%$

**Product Descriptions**



**Sheet**

Flat material with a thickness >0.5mm.

**Tolerances**

Thickness:		± 10%
	Ceramic	± 20%
	Composite	± 20%
	Polymer	± 20%
Size (linear dimension):	< 100mm	± 1mm
	≥ 100mm	+ 2% / - 1%



**Single Crystal**

A material grown as a monocrystal, generally to a specific orientation, dimension and surface finish. It may contain a dopant. Single crystals are usually made to order.

**Tolerances**

Orientation:	± 3°
Size:	Sizes shown are nominal



**Sphere**

A regular solid or hollow three-dimensional form in which every cross-section is a circle. Spheres are available with standard or precision tolerances, and can be supplied with different surface finishes depending on the material.

**Tolerances**

Diameter (standard):	± 5%
Diameter (precision):	see item



**Sputtering Target**

A high purity material used as a source for sputtering, a cold vaporization process in which atoms are physically removed from the target surface by ion bombardment.

**Tolerances**

Thickness:	± 0.5mm
Size:	± 0.5mm



**Tube**

A hollow length of material normally circular in section. Most tubes are straight except those made of flexible polymer.

**Tolerances**

Outside diameter:	≤ 2mm	± 0.05mm
	Polymer	± 10%
	Ceramic	± 10%
> 5mm	± 0.1mm	
	Polymer	± 10%
	Ceramic	± 10%
Wall thickness:	> 5mm	± 5%
	Polymer	± 10%
	Ceramic	± 10%
Length:	± 10%	
	Polymer	± 20%
	Ceramic	± 20%
Length:	< 100mm	± 1mm
	≥ 100mm	+ 5% / - 1%



**Washer**

A thin, flat piece of material with a hole in the middle, used in conjunction with bolts and nuts to distribute the load of a threaded fastener.

**Tolerances**

See item



**Wire**

A single or multiple flexible strand of pure metal or alloy.

**Tolerances**

Wire diameter:	± 10%
Length:	+ 5% / - 1%



**Hazards Information**

**HAZARDS**

All materials listed in this catalog, whatever the quantity supplied, are sold for research or development purposes. We make no warranty that the materials are fit for a particular purpose. In purchasing materials from this catalog, customers should be aware that there may be hazards associated with their use and in the handling of them. Complete toxicological or hazard investigations are the responsibility of the customer. Ingestion or contact with the human body may be harmful. The responsibility for the safe use of our products rests with the customer. All materials should be handled by qualified personnel familiar with laboratory procedures and who are familiar with the nature of the material and any necessary precautions which should be taken in the handling, use and storage of the products. The customer shall be responsible for the control and use of the products offered in this catalog whether alone or in combination with other articles or substances or in any other manner whatsoever.

**HAZARD SYMBOLS**



C

**Corrosive**

Chemicals which may destroy living tissue when in contact with them.



D

**Dangerous when wet**

Chemicals which, in contact with water or damp air, evolve highly flammable or toxic gases and vapours in dangerous quantities.



E

**Explosive**

Chemicals which may react exothermically without atmospheric oxygen, quickly evolving gases, and which under defined test conditions detonate, quickly deflagrate or upon heating explode when partially confined.



F+

**Extremely Flammable**

Chemicals which when finely divided (small particle size) are liable to ignite spontaneously.



Xn

**Harmful**

Chemicals which may cause death or acute or chronic damage to health when inhaled, ingested or absorbed via the skin.



F

**Highly flammable**

Chemicals which will ignite after contact with flame, or which will evolve highly flammable gases in contact with water.



Xi

**Irritant**

Non-corrosive chemicals which, through immediate, prolonged or repeated contact with the skin or mucous membrane may cause inflammation.



R

**Radioactive**

Chemicals which will emit ionising radiation without being subject to irradiation. General precautions for Toxic chemicals apply to those of low activity. For chemicals of medium or high activity special regulations apply.



T

**Toxic**

Chemicals which may cause death or acute or chronic damage to health when inhaled, ingested or absorbed via the skin.



T+

**Very Toxic**

Chemicals which in low quantities cause death or acute or chronic damage to health when inhaled, ingested or absorbed via the skin.

## General Information

### Analyses

#### **Typical Analysis :**

Where appropriate a typical analysis is given. All figures are parts per million (ppm) by weight unless otherwise stated. It must be emphasised that this data is "typical" and no guarantee is given that the material supplied will conform to these analyses. The compositions shown under alloy headings are generally weight percent. Exceptions are the glassy alloys and the rare earth magnets where the convention of using atomic ratio is followed.

#### **Purity**

Purities listed are quoted with respect to total metallic impurities. Typical analyses may give additional information about likely non-metallic impurities.

#### **High Purity**

For materials described in the catalog as High Purity, the actual analysis of metallic impurities will be supplied free of charge. For other items, an actual analysis can be supplied and a charge will be made for the analysis and for the sample used.

If you require an analysis please tell us whether you require analysis of metallic impurities only or metallic and gaseous. Where an analysis is required the shipment of your order may be delayed.

### Supports

Some items from our range of foils need to be supported on one side of the foil to enable both you and us to handle these very delicate materials. Two types of support can be used, the choice being governed by the material. Wherever possible we use a temporary support, a permanent support only being used when the material is brittle (for example Chromium or Manganese).

The temporary support is Acrylic, approximately 0.2mm thick. This may be removed by dissolving in 2-Propanone (Acetone).

Our permanent support is Polyester, thickness 0.125mm, which is hot-press laminated to one face of the foil. It **cannot** be removed without destroying the foil.

Microfoil is mounted on a permanent 3.5µm polyester support. This support **cannot** be removed without destroying the Microfoil.

Microleaf is mounted on a specially treated support which allows separation of the metal film from the support. Full instructions on the method of removal are issued with each Microleaf supplied.

### Light Tight (LT) & Not Light Tested (NLT)

Light tight (LT) foils are supplied without visible pinholes after examination without magnification. Foils 0.025mm or more in thickness are supplied LT unless otherwise stated.

Foils less than 0.025mm thick are normally supplied Not-Light Tested (NLT), and will normally contain pinholes but may occasionally be free from pinholes. Foils less than 0.025mm in thickness can often be supplied LT but may incur additional charges. Please specify if you require LT foils.

### Vacuum tight

Vacuum tight foils show no detectable leakage when tested with a helium mass spectrometer with a sensitivity of  $10^{-9}$  atm-cm<sup>3</sup>.s<sup>-1</sup>.

### Continuous Lengths

If you require material in continuous lengths please tell us when you place your order. Unless otherwise specified, we reserve the right to supply in more than one length.

### Technical Data and Information

All information and technical data are given as a guide only. Although every effort has been made to ensure that the information is correct, no warranty is given as to its completeness or accuracy.

### Tolerances

For details of our standard tolerances, please refer to the Product Description section. In many cases, closer tolerances are available but may be subject to an extra charge. If you have any special requirements it is important that you tell us at the time of ordering. This includes special tolerances, dimensional uniformity or any other special requirement which you may have (for example edge finish, packaging, labelling etc.). Please indicate precisely what is required and we shall do our best to meet your specification.

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## Order information

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### General Information

There are over 70,000 stock packs listed and if you cannot find what you need amongst them, please ask for special sizes, thicknesses, tolerances, dimensions or larger quantities. We are also able to offer many other pure metals, alloys, polymers and ceramics to special order.

### Prices

All the prices listed are total (lot) prices for the sizes and quantities listed.

Prices shown are in US\$ and include free delivery by our standard 48 hour service except for those items marked as "special offer" or dangerous goods with transport restriction. Prices are subject to change without notice and orders will be invoiced at prices ruling on the date of despatch.

### Transport Restriction

Some of the materials supplied by Goodfellow are subject to special transport restrictions. Additional shipment charges may apply which are dependent on destination. Please check the individual item on our website or contact us for details of the charges.

If you intend to have the material transported or sent onwards please ensure that you are aware of the relevant transport restrictions.

### Delivery

Delivery by UPS or Federal Express is included in the prices, although alternative methods may be used depending on the materials ordered.

### Split Shipment

All orders are accepted for one shipment on one date to one address. A charge will be made for split shipments made at the customer's request.

### Special Analysis, Supports or Tolerances

An extra charge is made for non-standard supports, alternative tolerances and certificates of analysis. The analysis is free of charge for items marked "High Purity".

### Cancellations

A charge for cancellation of orders may be made. The amount will depend on the circumstances.

### Express Service

Please inform us if you need to have your goods shipped urgently. An administrative charge will be made for this service, details can be found on our website.

### Shipment

We aim to have all items listed in this catalog in stock in the quantities and sizes listed. We can only undertake to ship an order on a particular date. The date of delivery at the customer's address is subject to the normal variations of the delivery service used.

### Despatch

Orders will normally be shipped within 48 hours of receipt.

### Non-delivery

If we have notified you of the shipment of goods and you have not received delivery within 5 days, please contact us.

### Insurance

All consignments will be insured by us against the usual risks unless we are instructed in writing to the contrary.

### Export Restrictions

A UK Government export licence may be required for some items to some destinations. If the item you require needs a special export licence or an end-use statement we will inform you at the time you order.

### Materials Handling

Many of our materials are extremely delicate and it is essential every care is taken when handling them. Special attention is drawn to the extreme fragility of Microfoil, Microleaf and thinner and finer materials.

All materials are carefully packed to ensure safe transport of goods to your address. We do not accept responsibility for damage caused by mishandling once the outer transit packaging has been removed.

### Terms of payment

Our normal terms of payment are net 30 days from date of invoice. Any alternative terms of payment are to be agreed with us in writing at the time of placing an order. Customers may be asked to pay cash with order or cash against pro-forma

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## Order information

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invoice with their first order. In order to establish a credit account we will require details of your bankers, along with two trade references.

### Credit account

We endeavour to keep our costs down and customers are requested to pay our invoices on time. We reserve the right to delay delivery if there are overdue invoices on the account. Accounts which remain unpaid beyond the due date may incur an interest charge at a rate of 2% per month.

### Credit card payments

We also accept payment using the following credit and charge cards:

Mastercard, VISA and American Express.

### VAT

VAT number for Goodfellow Cambridge: GB 212 8527 79

### UK

VAT will be added to the invoice at the rate ruling at the date of invoice. Where a customer is exempt, VAT will be charged unless we receive a copy of the exemption form at the time the order is placed.

### EU

Customers registered for VAT who provide their local registration number will not be charged UK VAT.

Customers who are exempt from VAT will not be charged UK VAT provided we are given a copy of their exemption form at the time the goods are ordered.

Customers not registered for VAT or who fail to give us their registration number will be charged UK VAT at the current rate.

### Export

All exports to countries outside the EU are zero-rated for UK VAT unless the invoice is being paid from within the EU.

### Return of goods

We will only accept return of goods provided we are contacted BEFORE the goods are returned. When we agree to the return we will issue a Goods Return Number and give instructions for the method of return of the goods. Goods will not be accepted for

return without a valid Goods Return Number. Due to the nature of some of our materials, it is imperative that you check any possible transport restrictions with your proposed freight company.

### Claims

Great care is taken during manufacture and packing and all items are carefully inspected before shipment. Any claim in respect of short delivery, incorrect material or defective quality must be notified to us in writing within three days of delivery. Please retain ALL packaging for our inspection. Our liability for any such claim shall not exceed the cost of replacement of the goods free of charge, or crediting the customer with the invoice value thereof.

### Goods ordered in error

We do not accept responsibility for customers' errors in ordering. The amount of credit for returned goods will be at our discretion. Where we accept returned goods a restocking charge will be made.

### Conditions of sale

All orders, contracts and quotations are subject to our standard terms and conditions of sale.

Information and statements provided are indicative only and do not form part of any offer or contract.

### Exclusions

We supply materials according to our specification. All conditions warranties and representations regarding the quality, fitness for purpose or state, size, shape, capacity or color of goods supplied whether expressed or implied by common law or statute or otherwise are hereby expressly excluded. We shall not be liable for any damage direct or consequential arising from the use of goods supplied by us however such damage is caused, nor for delay in delivery.

### Law

Customers in the USA: Contracts between Goodfellow Corporation and the customer shall be deemed to be subject in all respects to the laws of the Commonwealth of Pennsylvania, or the United States of America.

Customers in France: Contracts between Goodfellow SARL and the customer shall be deemed to be subject in all respects to French law unless otherwise agreed in writing

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## Order information

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Customers in Germany: Contracts between Goodfellow GmbH and the customer shall be deemed to be subject in all respects to German law unless otherwise agreed in writing

Customers in the UK and all other countries: Contracts between Goodfellow Cambridge Limited and the customer shall be deemed to be subject in all respects to English law unless otherwise agreed in writing.

Copies of our General Terms and Conditions are available upon request or can be downloaded from our websites at [www.goodfellow.com](http://www.goodfellow.com) or [www.goodfellowusa.com](http://www.goodfellowusa.com).

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## Company Details

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### Company Structure

The Goodfellow Group consists of five companies:

#### ***Goodfellow Cambridge Limited***

Goodfellow was established in the City of London in 1946. The Company now has subsidiary operations in France, Germany and North America with the Group's research laboratories, workshop facilities & central administration located in Huntingdon, England.

#### ***Goodfellow Corporation***

Established at the same time as our associate company in Germany, Goodfellow Corporation was set up to service the requirements of our customers in the USA.

#### ***Goodfellow GmbH***

Since 1989, this member of the Goodfellow group of companies has been serving the needs of our German speaking customers within Europe.

#### ***Goodfellow SARL***

Goodfellow established an operation in France in 1993 to meet the needs of our French-speaking customers in Europe.

#### ***Goodfellow (Shanghai) Trading Co., Ltd***

Goodfellow established a representative office in Shanghai in 2006, and in 2012 followed this with the creation of a fully-fledged trading company, servicing the research and specialist manufacturing requirements of the Chinese market.

### COMPANY DETAILS

#### **Goodfellow Cambridge Limited**

Ermine Business Park  
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VAT registration GB 212 8527 79

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A Pennsylvania corporation  
EIN 23-2557381

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Siren : 381486836  
Numéro de TVA Intracommunitaire :  
FR 06 381 486 836

#### **Goodfellow GmbH**

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#### **Goodfellow (Shanghai) Trading Co., Ltd**

Room 803, Centro Build, No. 568 Hengfeng Road  
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200070  
The People's Republic of China

# Conditions of Sale

## 1 GENERAL

1.1 In these Conditions:

1.1.1 the following expressions shall have the following meanings:-

- "Buyer" the individual firm company or other party from whom an order to supply Goods and/or Services is received by the Seller;
- "Conditions" the standard terms and conditions of sale of the Seller as set out herein and includes any additional terms and conditions of sale agreed in writing by the Seller;
- "Contract" a contract for the Supply of Goods and/or Services by the Seller to the Buyer;
- "Date of Delivery" the date on which delivery of the Goods or Services takes place pursuant to Condition 7;
- "Goods" the goods which the Seller is to supply (or, in relation to Condition 11, the goods in respect of which the Seller is to provide Services) under the Contract and includes any of them or any part of them and where the context so admits includes raw materials, processed materials and/or manufactured products whether processed or manufactured by the Seller or not;
- "Prepayment" a payment to be made by the Buyer pursuant to Condition 6.2 to be used at the Seller's discretion for the purchase of materials and/or towards the costs of labour and other costs relating to the supply of Goods;
- "Recommendations for Use" the recommendations (if any) relating to the storage, handling, application and/or use of the Goods contained in the published literature of the Seller (or, if relevant, a Supplier) or any recommendations made in Writing by an authorised representative of the Seller (or, if relevant, a Supplier);
- "Seller" Goodfellow Cambridge Limited and any subsidiary or holding company or associate (as such terms are defined in the Companies Act 1985 (as amended)) of the said company;
- "Services" the work or services or any of them to be provided by the Seller under the Contract;
- "Supplier" any person, firm or company who or which supplies materials to the Seller which make up the Goods which are to be supplied to the Buyer;

1.1.2 words importing the singular number shall include the plural and vice versa, words importing one gender shall include all genders, and words importing persons shall include bodies corporate, unincorporated associations and partnerships

- 1.2 If satisfactory references and information on the Buyer are not provided within seven days of a request therefore by the Seller, or if, following the provision of such information, the Seller is unable to obtain satisfactory trade indemnity or similar cover in respect of its dealings with the Buyer, the Seller may terminate the Contract and the rights and liabilities of the parties shall be the same as if the Contract had been cancelled in accordance with the provisions of Condition 10.2
- 1.3 The seller reserves the right to assign, sub-contract the Contract or any part thereof. The Buyer shall not be entitled to assign the benefit or burden of the Contract without the consent in writing of the Seller
- 1.4 In relation to all obligations of the Buyer under these Conditions, the time of performance is of the essence
- 1.5 The legal construction of these Conditions shall not be effected by their headings which are for convenience of reference only

## 2 ORDERS

- 2.1 Notwithstanding that the Seller may have given a detailed quotation or estimate either verbally or in writing no order shall be binding on the Seller unless and until it has been acknowledged in writing by the Seller or the Goods are delivered or the Services are provided by the Seller to the Buyer pursuant to the order
- 2.2 In order to avoid duplication of orders the Buyer shall be responsible for ensuring that any confirmation of an order previously placed is prominently marked as being a confirmation and not a new order. The Buyer acknowledges that any order or confirmation of order which is not so marked may be treated and accepted by the Seller as a new order to create a Contract in addition to any Contract arising out of the previously placed order
- 2.3 These Conditions are incorporated in the Contract and together with any matter set out in the Seller's quotation or acceptance/acknowledgement of order contain the entire obligations between the Seller and the Buyer. In the case of any inconsistency between any letter or quotation incorporating or referring to these Conditions and any order, letter or form of contract sent by the Buyer to the Seller, whatever may be their respective dates, the provisions of these Conditions shall prevail. In the event of the Seller entering into the Contract without the Seller having submitted a written quotation or other letter or document incorporating or referring to these Conditions but in circumstances where the Buyer has had prior notice of these Conditions then all Goods or Services supplied shall be subject to these Conditions
- 2.4 No variation of the Contract by the Buyer shall be binding upon the Seller unless made in Writing and signed on behalf of the Seller. In the event of such variation the Buyer shall indemnify and keep indemnified the Seller in full against all loss, which term shall include (but without prejudice to the generality thereof) loss of profit, costs (including the cost of labour and materials), damages, charges and expenses incurred (directly or indirectly) by the Seller as a result of such variation

2.5 Any representations (except fraudulent misrepresentations) or warranties made by or on behalf of the Seller prior to the Contract (whether verbally or in writing) are hereby expressly excluded and shall be of no effect

## 3 DESCRIPTION

- 3.1 Any figures, statements, descriptions, illustrations, photographs, drawings, weights or any other matters contained in the Seller's catalogues, pamphlets, price lists or advertising literature are not guaranteed to be accurate and are intended merely to represent a general picture of the Seller's products and shall not form part of the Contract nor be regarded as a warranty or representation relating to the Goods or Services
- 3.2 The Seller reserves the right to amend the specification of its products and services from time to time so that the descriptions thereof as set out in its catalogues, pamphlets, price lists or advertising literature may not be identical with those set out in the Seller's quotation and the Buyer is advised to check the specification set out in the Seller's quotation before placing an order

## 4 SPECIFICATIONS AND INTELLECTUAL PROPERTY

- 4.1 Where goods are supplied to the Buyer's own specification, or where standard goods of the Seller are altered in accordance with the Buyer's instructions the Buyer warrants and undertakes full responsibility for the suitability and fitness of the specification, pattern or design but also that such specification, pattern or design does not infringe any patent, trade mark, registered design, copyright or any other proprietary right of any third party and the Buyer shall indemnify and keep the Seller indemnified in full against any loss, damage or expense whatsoever (including costs) which the Seller may incur in or arising from the performance of the Contract by reason of any infringement of any such patent, trade mark, registered design, copyright or any other proprietary right
- 4.2 The Seller reserves the right to change the Buyer's specification as required to ensure that the Goods comply with any health, safety or other statutory requirement or provision and no such change by the Seller will constitute a breach of contract or impose upon the Seller any liability whatsoever
- 4.3 Unless otherwise agreed in writing, the Seller will be the sole owner of all inventions, formulations, tools, patterns, designs or other similar items and the copyright in all documents and drawings made or produced by it in preparing a quotation for the Buyer or in the course of work on any Contract with the Buyer

## 5 QUOTATIONS

5.1 The Seller's quotations are provisional in so far as they are subject to alteration by reference to any changes in the price of raw materials, any item to be acquired by the Seller from a third party, rates of wages, other costs of production and any other circumstances beyond the Seller's control taking place between the date of the quotation and the Buyer's placing of an order in respect thereof

## 6 PRICE

- 6.1 The Seller shall be entitled to adjust the Contract price of the Goods or Services whether before or after the making of the Contract in the event of any variation in the cost to the Seller of supplying the same or any part thereof caused by:-
- 6.1.1 any increase in the cost of materials required by the Seller for the completion of the Contract; or
- 6.1.2 any increase in wages or production and manufacturing costs or other overheads; or
- 6.1.3 any other reason whatsoever beyond the control of the Seller including (but without prejudice to the generality of the foregoing) fluctuations in exchange rates between monetary currencies the action of any government or any other authority or any labour problems
- 6.2 In the Seller's absolute discretion, a Prepayment in respect of the Contract may be required to be paid by the Buyer to the Seller on the terms set out in this Condition. The Prepayment shall be applied as follows:-
- 6.2.1 in the event that the Contract is performed in full by both parties the Prepayment shall be retained by the Seller in reduction of the total price payable by the Buyer under the Contract;
- 6.2.2 in the event that the Buyer is either in default of any of its obligations under the Contract or cancels or suspends the Contract in accordance with Condition 10 the Prepayment shall be set off by the Seller against its proper costs losses or damages arising in connection with the default and/or cancellation or suspension
- 6.3 Unless otherwise stated, the price set out in the Seller's quotation includes the cost of packaging, carriage, and (save as provided in Condition 6.4) insurance. In respect of supplies of Goods in the United States of America, Canada and Japan the price also includes import duties and sales taxes (if any). In respect of supplies of Goods in other countries the price does not include import duties or VAT or sales taxes which will be extra charges based on prevailing rates
- 6.4 Where the Buyer requests a particular means of delivery, the price set out in the Seller's quotation does not include insurance, which is to be arranged at the responsibility of the Buyer.

## 7 DELIVERY

- 7.1 Delivery of Goods shall be deemed to be effected by the Seller at the following times:-
- 7.1.1 where Goods are collected by or on behalf of the Buyer by its servants or agents, or where Goods are collected in

## Conditions of Sale

- accordance with a means of delivery specifically requested by the Buyer, when the same are collected;
- 7.1.2 where delivery of the Goods is to be the responsibility of the Seller, when they arrive prior to unloading at the Buyer's premises;
- 7.1.3 where Goods are sold FOB or CIF, when they pass the ship's rail or are loaded onto the aircraft
- 7.2 Delivery of Services shall be deemed to be effected by the Seller at the time of completion by the Seller of the Services
- 7.3 Whilst the Seller will make every reasonable effort to complete the Contract by the date or dates therein specified for delivery of Goods or provision of Services such date or dates shall only constitute the times by which the Seller expects to effect such delivery and if no time is agreed delivery will be within a reasonable time but the performance of the Contract by the Seller shall not be the essence of the Contract, the Seller's failure to so deliver by the due date or dates shall not constitute a breach of Contract and the Seller shall not in any circumstances be responsible for any direct or consequential loss or damage of any kind whatsoever resulting therefrom. The Seller may wholly or partly suspend deliveries of Goods or provision of Services and the Buyer shall accept late delivery of such Goods or Services unless the Buyer has cancelled the Contract in accordance with the provisions of Condition 10.3

### 8 QUANTITIES INSTALMENTS AND STORAGE

- 8.1 Where Goods are delivered or Services are by instalment each instalment shall be deemed to be sold under a separate Contract and the party in default in respect of any instalment shall be liable accordingly, but no default in respect of any one instalment shall effect due performance of the Contract as regards other instalments
- 8.2 The Seller will endeavour to deliver the quantity of Goods ordered and every delivery shall be deemed to comply with the order. If there is a surplus or shortage of Goods which is no more than 10% of the quantity specified in the order the Buyer shall be deemed to have accepted the Goods and shall pay for the actual quantity delivered
- 8.3 If Goods or Services are to be delivered by instalments, the Seller shall be entitled to invoice each instalment as and when delivery is made and payment for all delivered instalments shall be due notwithstanding the non-delivery of other instalments or other default by the Seller. Failure by the Buyer to make payment by the due date for any one instalment for whatever reason shall entitle the Seller to suspend deliveries of Goods or provision of Services under the Contract but without prejudice to any other right the Seller may have under any of the other provisions of these Conditions
- 8.4 Notwithstanding that risk shall have passed to the Buyer pursuant to Condition 15 the Seller may in its absolute discretion arrange for storage of the Goods either at the request of the Buyer or as a result of the failure by the Buyer to take delivery of the Goods under Condition 7. The Seller may insure the goods whilst in storage and the Buyer shall indemnify and keep indemnified the Seller in full against all costs, losses, damages and expenses whatsoever arising in connection with the storage provided for hereunder and such costs, losses, damages and expenses will be added to and form part of the price of the Goods
- 8.5 Unless otherwise agreed between the Buyer and the Seller, the Seller shall be entitled in its absolute discretion and without giving prior notice to the Buyer at the expiration of 3 months to sell or otherwise dispose of Goods kept in storage as provided in Condition 8.4

### 9 TERMS OF PAYMENT

- 9.1 Unless otherwise agreed the price shall be due and payable at the Seller's offices 30 days after the date of the Seller's invoice
- 9.2 If the Buyer does not pay the whole or any part of the price on the required day then the Buyer shall pay to the Seller on request interest on the amount outstanding from the required day until the actual date of payment at the rate of 2% p.a. over the base rate of Barclays Bank plc from time to time in force which shall accrue on a daily basis
- 9.3 Condition 12 shall apply in the event of any alleged defect or failure in or of the Goods or Services and the Buyer shall not delay or refuse to make payment in any such event
- 9.4 The Buyer shall not be entitled to withhold payment of any amount due to the Seller by reason of any disputed claim by the Buyer in connection with the Contract nor shall the Buyer be entitled to set off against any amount payable under the Contract to the Seller any amount which is not then due and payable by the Seller or for which the Seller disputes liability
- 9.5 All payments payable to the Seller under the Contract shall become due immediately upon termination of the Contract despite any other provision.

### 10 SUSPENSION AND CANCELLATION

- 10.1 If the Buyer shall commit any breach of the Contract and fail to remedy the same within 7 days of receiving the Seller's request in writing so to do or any distress or execution is levied upon any goods or property of the Buyer or the Buyer makes any voluntary arrangement with its creditors or becomes subject to an administration order or (being an individual or firm) becomes bankrupt or (being an incorporated company) passes a resolution for winding up (otherwise than for the purpose of amalgamation or reconstruction), or a Court makes an order to that effect, or an encumbrancer takes possession, or an administrative receiver or receiver is appointed, of any of the property or assets of the Buyer, or the Buyer ceases, or threatens to cease, to carry on business or is unable to pay its debts within the meaning of section 123 Insolvency Act, 1986, or the Seller reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly, the Seller may:-
- 10.1.1 stop any Goods in transit and suspend any further deliveries;

and/or

- 10.1.2 suspend work on the Contract; and/or
- 10.1.3 determine the Contract forthwith and if the Goods or Services, or any part of them have been delivered but not paid for, the price shall become immediately due and payable notwithstanding any previous agreement to the contrary but without prejudice to the Seller's right to any unpaid price for Goods or Services delivered under the Contract and to damages for loss (both direct and consequential) suffered in consequence of such determination
- 10.2 If the Buyer requires cancellation of the Contract this will only be accepted at the sole discretion of the Seller and unless otherwise agreed in writing only upon condition that any costs, charges or expenses (both direct and consequential) incurred by the Seller up to the date of cancellation and the value of all loss or damage (both direct and consequential) incurred by the Seller by reason of such cancellation will be reimbursed by the Buyer to the Seller forthwith. Acceptance by the Seller of any cancellation by the Buyer will only be binding upon the Seller if it is made in writing
- 10.3 In the event of the Seller other than in any of the circumstances set out in Condition 10.1 being prevented or hindered from completing the Contract either wholly or in part in accordance with the terms thereof for any reason whatsoever beyond its reasonable control which, for the avoidance of doubt and without prejudice to the generality of the foregoing, shall include governmental action, war, riot, civil commotion, fire, flood, epidemic, labour disputes (including labour disputes involving the work force or any part thereof of the Seller or Supplier), restraints or delays affecting shipping or carriers, licensing, exporting or importing restrictions, currency restrictions and Acts of God then further performance of the Contract shall be suspended for the period during which the Seller is so prevented provided that in the event of the Contract being suspended for a continuous period of more than 3 months then either party may give the other notice in writing to terminate the Contract forthwith and in such circumstances the Buyer shall pay for all Goods or Services supplied to the date of such termination such payment to be made on or before the last day following the month during which termination was effected. The Seller shall be under no liability whatsoever to the Buyer for any direct or consequential loss or damage suffered by the Buyer as a result of the Seller's inability to perform its obligations under the Contract in these circumstances
- 10.4 The Seller's rights contained in Condition 17 (but not the Buyer's rights) shall continue beyond the discharge of the parties' primary obligations under the Contract consequent upon its termination
- 10.5 The termination of the Contract for whatever reason will be without prejudice to the rights and duties of either party accrued prior to termination

### 11 INSPECTION AND CLAIMS FOR DEFECTS

- 11.1 The Goods are of a highly specialised nature and must be treated with the utmost care. It is essential that the Buyer checks that they correspond in all respects with the Buyer's requirements. Any discrepancies should be notified to the Seller immediately. The Buyer undertakes to ensure that all Goods are unpacked and handled only by persons qualified to deal with such specialised products, to safeguard against injury to the Goods or to the Buyer's personnel
- 11.2 The Buyer shall inspect the Goods and carry out tests to ensure the Goods conform with the description of the Goods or Services in the Buyer's orders within 7 days of Delivery and whether or not the Buyer carries out such obligation to inspect and test no claims for non-delivery, shortages in quantity of units delivered, defective Goods or Services, non-conformity to description or partial loss or damage to Goods will be accepted by the Seller unless:-
- 11.2.1 they are notified in writing by the Buyer to the Seller within 10 days after the Date of Delivery (in the case of partial loss, damage, non-conforming or defective Goods or Services) or 14 days after the date of the invoice (in the case of non-delivery);
- 11.2.2 the Goods in respect of which a claim is made together with all the relevant packing are preserved intact as received for a period of 35 days from notification of any such claim and the Buyer permits the Seller or its servants or agents full and free right of access to inspect the Goods and investigate the claim; and
- 11.2.3 if the Buyer fails to give the appropriate notice as specified in Condition 11.2.1, the Buyer's claim will be deemed to have been waived and will be absolutely barred
- 11.3 It is in all cases the responsibility of the Buyer to ensure by testing or otherwise that the Goods are fit and suitable for the purposes for which the Buyer requires them in the conditions in which they will be used. The Buyer acknowledges that the Seller shall be under no liability of any description to the Buyer if the Goods prove to be unsuitable for whatever reason for application or use notwithstanding that the Seller may, at the request of the Buyer, have given in good faith technical or other advice in relation to the proposed application or use of the Goods and the Buyer shall indemnify and keep indemnified the Seller in full against any and all liability of any kind arising out of or connected with the application or use of the Goods
- 11.4 Section 3 Sale and Supply of Goods Act 1994 shall not apply
- 11.5 The Seller will not accept the return of Goods in any circumstances unless it has first issued a Goods return number and such number is quoted with the returned Goods

### 12 WARRANTY

- 12.1 In substitution for all and any other rights which the Buyer might or would have had but for these Conditions and subject to Condition 11,



## Conditions of Sale

the Seller shall make good by replacement any failure in the Goods or Services which results from defects in the Seller's materials or workmanship and which appear not later than 2 months after the Date of Delivery and shall replace any Goods or Services which do not conform with the description in the Buyer's order

- 12.2 Notwithstanding the provisions of Condition 12.1, in the case of a claim falling within Condition 12.1, the Seller reserves the right at its sole discretion to credit the Buyer in full the price paid by the Buyer to the Seller
- 12.3 The Seller's liability under this Condition shall automatically cease if:
- 12.3.1 the Buyer has not paid for all Goods or Services supplied under any Contract by the due date or is otherwise in breach of this or any other Contract made with the Seller; or
- 12.3.2 the Seller or its servants or agents are denied full and free right of access to the allegedly defective Goods; or
- 12.3.3 the Buyer has not properly maintained the Goods or has not complied with any Recommendations for Use; or
- 12.3.4 the defect or failure is caused by a breach by the Buyer of its undertakings and warranties contained in Condition 17; or
- 12.3.5 the Buyer has failed to notify the Seller in writing of any defect or suspected defect within 14 days of the same coming to the knowledge of the Buyer
- 12.4 The warranty set out in Condition 12.1 shall be in lieu of any warranties conditions or undertakings whether express or implied by statute, common law or otherwise howsoever which warranties, conditions and undertakings are hereby expressly excluded, except that such exclusions will not apply to any implied condition that the Seller has or will have the right to sell the Goods when the property is to pass
- 12.5 Nothing in these Conditions excludes or limits the liability of the Seller for death or personal injury caused by the Seller's negligence or fraudulent misrepresentation
- 12.6 SUBJECT TO CONDITIONS 12.4 AND 12.5
- 12.6.1 the seller's total liability in contract, tort (including negligence or breach of statutory duty), misrepresentation or otherwise, arising in connection with the performance or contemplated performance of the contract shall be limited to the price paid for the goods or services under the contract; and
- 12.6.2 the seller shall not be liable to the buyer for any indirect or consequential loss or damage (whether for loss of profit, loss of business, depletion of goodwill or otherwise), costs, expenses or other claims for consequential compensation whatsoever (however caused) which arise out of or in connection with the contract

### 13 CONSUMER SALES

- 13.1 Where the Goods are sold under a consumer sale (as defined by the Sale of Goods Act 1979) the statutory rights of the Buyer are not affected by these conditions

### 14 TITLE TO GOODS

- 14.1 Full legal and beneficial ownership of the Goods shall be retained by the Seller notwithstanding that the risk in the same shall pass to the Buyer at the time of delivery until the Seller has received payment in full in respect of
- 14.1.1 The Goods; and
- 14.1.2 All other sums which become due and owing by the Buyer to the Seller on any account whatsoever
- 14.2 Until ownership of the Goods has passed to the Buyer the Buyer shall hold the Goods in a fiduciary capacity and as bailee of the Seller and shall at all times take proper care of the same and will not obliterate or obscure any identifying mark or their packaging and will keep the Goods separate from any other goods and in such manner that they may be clearly identified as belonging to the Seller and the Buyer hereby grants to the Seller the right to enter on the Buyer's premises at any time during the continuation of the Contract to check that the Buyer is complying with the obligation contained in this Condition. The Buyer will return the Goods to the Seller if it receives a request whether verbally or in Writing so to do prior to payment in full as aforesaid having been made and the Seller will then repay any part of the purchase price it has already received in respect of the Goods less a reasonable amount in respect of its costs and expenses in connection with the Contract
- 14.3 For the purposes of Condition 14.1, the expression "the Buyer" includes any subsidiary or holding company or associate of the Buyer (as such terms are defined in the Companies Act 1985 (as amended))
- 14.4 The Seller will have the right to maintain an action against the Buyer for the price of the Goods notwithstanding that property in the Goods has not been passed

### 15 RISK AND INSURANCE

- 15.1 The risk in the Goods shall pass to the Buyer at the time of delivery as provided for in Condition 7
- 15.2 Notwithstanding the reservation of title contained in Condition 14, the Buyer shall insure the Goods and/or any products made wholly or partly therefrom for the full amount of the price payable under the Contract with an insurance office of repute from the time of delivery of the Goods until the date title in the Goods passes to the Buyer pursuant to Condition 14.1

### 16 EXPORT TERMS

- 16.1 In these Conditions "Incoterms" means the international rules for the interpretation of trade terms of the International Chamber of Commerce

as in force at the date when the Contract is made. Unless the context otherwise requires, any term or expression which is defined in or given a particular meaning by the provisions of Incoterms has the same meaning in the Contract

- 16.2 Where the Goods are supplied for export from the United Kingdom then unless otherwise agreed in writing between the Buyer and the Seller

- 16.2.1 the provisions of Incoterms shall (subject to any special terms agreed in writing between the Buyer and the Seller) apply but if there is any conflict between the provisions of Incoterms and these Conditions, the latter shall prevail.
- 16.2.2 the Buyer shall be responsible for complying with any legislation or regulations governing the importation of the Goods into the country of destination and (save in respect of the United States of America, Canada and Japan) for the payment of any duties and taxes thereon unless payment for these is included in the Contract
- 16.2.3 the Buyer shall be deemed to have satisfied itself that such Goods comply with the safety regulations of any country or state in which the Goods are to be used outside the United Kingdom and the Buyer shall indemnify and keep indemnified the Seller in full for any loss or damage whatsoever which the Seller may incur if such Goods do not comply with such safety regulations

- 16.3 The Goods shall not be used in any country other than that for which the Seller was aware they were originally ordered without the Seller's consent in writing

- 16.4 The Buyer undertakes not to offer the Goods for resale in any country notified by the Seller at or before the time the Buyer's order is placed, or to sell the Goods to any person if the Buyer knows or has reason to believe that person intends to resell the Goods in any such country

### 17 BUYER'S WARRANTIES

- 17.1 The Buyer warrants to the Seller that:
- 17.1.1 the Buyer will install, operate or otherwise use or store the Goods strictly in accordance with the Recommendations for Use and with all relevant or applicable statutory or other regulations governing the installation, operation, use or storage of the Goods; and
- 17.1.2 any collection vehicle, container, ship or other means of transport provided by the Buyer or any agent of the Buyer will comply with all relevant legislation and regulations relating to health and safety requirements; and
- 17.1.3 the storage and transport facilities and all parts thereof and all equipment used in connection therewith is suitable for storage (both short term and long term) and transport of the Goods and complies with any statute, regulation, bye law or other rule having the force of law and relating to the storage of goods of the nature of the Goods; and
- 17.1.4 the Buyer will ensure that the Goods are stored in conditions appropriate to goods of that nature and will comply with any recommendations as to the storage of Goods notified to it by the Seller from time to time; and
- 17.2 The Buyer shall indemnify and keep indemnified the Seller in full against any claim, loss or damage (including, without limitation, damage to the reputation of the Seller) arising directly or indirectly from any breach of the warranty contained in Condition 17.1

### 18 SEVERANCE

- 18.1 If at any time any one or more of the provisions or part thereof of these Conditions becomes or is invalid, illegal or unenforceable in any respect under any law or is held by a court to be invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions hereof and the remainder of such provision shall not in any way be affected or impaired thereby

### 19 JURISDICTION

- 19.1 These Conditions and each and every Contract made pursuant to them shall be governed by and construed in all respects in accordance with the laws of England and the Seller and the Buyer hereby agree to submit to the non-exclusive jurisdiction of the English Courts

### 20 NOTICES

- 20.1 Any notice required or permitted to be given by either party to the other under these Conditions shall be in writing addressed to that other party at its registered office or principal place of business or such other address as may at the relevant time have been notified pursuant to this provision to the party giving notice
- 20.2 Any notice given pursuant to clause 20.1 shall be deemed to have been served:
- 20.2.1 if delivered by hand, on the first Business Day following delivery;
- 20.2.2 if sent by post, on the third Business Day after posting if the address of the recipient is in the country of despatch, otherwise on the seventh Business Day after posting;
- 20.2.3 if sent by facsimile transmission, on the first Business Day following successful transmission
- 20.3 In proving service it shall be sufficient proof in the case of a notice sent by post, that the envelope containing the same was properly stamped, addressed and placed in the post and, in the case of facsimile transmission, that it was properly addressed and successfully transmitted
- 20.4 In this Condition 20, "Business Day" shall mean any day other than Saturday, Sunday or any other day which is a public holiday in the place at which the notice is left or to which such notice is despatched

### 21 WAIVER

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## Conditions of Sale

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21.1 No waiver by the Seller of any breach of any provision of the Contract by the Buyer shall be considered as a waiver of any subsequent breach

of the same or any other provision and the Seller shall not be prejudiced by any forbearance or indulgence granted by it to the Buyer

# Aluminum

## Al

Aluminum was discovered by Hans Oersted in Copenhagen, Denmark in 1825.

Aluminum is a silvery white reactive metal which is usually covered by a tenacious oxide coating. This renders it inert to acids, but it is attacked by alkalis. It is the most common metallic element in the earth's crust (82000 ppm) and is extracted from the hydrated oxide, Bauxite, by electrolysis of the oxide dissolved in molten sodium hexafluoroaluminate (cryolite). The metal has good thermal properties and is malleable and ductile. Aluminum and its alloys are widely used for various applications including aircraft assemblies and engine parts.

### Atomic Properties

Atomic number	13
Atomic radius - Goldschmidt	0.143 nm
Atomic weight	26.98154 amu
Crystal structure	Face centred cubic
Electronic structure	Ne 3s <sup>2</sup> 3p <sup>1</sup>
Photo-electric work function	4.2 eV
Thermal neutron absorption cross-section	0.232 Barns
Valences shown	3

### Electrical Properties

Electrical resistivity @20C	2.67 μOhmcm
Temperature coefficient @0-100C	0.0045 K <sup>-1</sup>
Superconductivity critical temperature	1.175 K
Thermal emf against Pt (cold 0C - hot 100C)	+0.42 mV

### Thermal Properties

Coefficient of thermal expansion @0-100C	23.5 x10 <sup>-6</sup> K <sup>-1</sup>
Latent heat of evaporation	10800 J.g <sup>-1</sup>
Latent heat of fusion	388 J.g <sup>-1</sup>
Specific heat @25C	900 J.K <sup>-1</sup> kg <sup>-1</sup>
Thermal conductivity @0-100C	237 W.m <sup>-1</sup> K <sup>-1</sup>

### Natural isotope distribution

Mass No.	%
27	100

### Ionization potential

No.	eV
1	5.99
2	18.8
3	28.4
4	120
5	154
6	190

### Mechanical Properties

Material condition	Soft	Hard	Polycrystalline
Bulk modulus			75.2 GPa
Hardness - Vickers	21	35-48	
Poisson's ratio			0.345
Tensile modulus			70.6 GPa
Tensile strength	50-90	130-195	MPa
Yield strength	10-35	110-170	MPa

### Physical Properties

Boiling point	2467 C
Density @20C	2.70 g.cm <sup>-3</sup>
Melting point	660.4 C



## Foil

<b>AL000210</b>	Thickness . . . . . 0.0008mm	Purity . . . . . 99.1%
<b>Sizes LT</b>		<b>Quantity</b>
<b>Web Code</b>	<b>Size</b>	<b>1pc</b> <b>2pcs</b> <b>5pcs</b> <b>10pcs</b> <b>20pcs</b>
304-353-868	30 x 30 mm	USD 161.00 USD 176.00 USD 212.00 USD 265.00 USD 361.00
976-658-568	140 x 140 mm	USD 225.00 USD 301.00 USD 547.00 USD 957.00
445-836-115	160 x 160 mm	USD 241.00 USD 346.00 USD 661.00 USD 1186.00

Typical Analysis : Ag 3, Ca 20, Cr 50, Cu 210, Fe 4700, Ga 500, Mg 70, Mn 300, Ni 300, Pb 100, Si 1600, Sn 50, Ti 700, V 70, Zn 130.  
 All dimensions are nominal.

<b>AL000271</b>	Thickness . . . . . 0.0015mm	Purity . . . . . 99.0%
	Temper . . . . . As rolled	
<b>Sizes LT</b>		<b>Quantity</b>
<b>Web Code</b>	<b>Size</b>	<b>1pc</b> <b>2pcs</b> <b>5pcs</b> <b>10pcs</b>
702-857-871	25 x 25 mm	USD 241.00 USD 286.00 USD 411.00 USD 639.00
119-654-409	50 x 50 mm	USD 332.00 USD 503.00 USD 984.00

Typical Analysis : Cu <1000, Fe <7000, Mn <1000, Si <5000, Zn <1000.

<b>AL000300</b>	Thickness . . . . . 0.002mm	Purity . . . . . 99.1%
<b>Sizes LT</b>		<b>Quantity</b>
<b>Web Code</b>	<b>Size</b>	<b>1pc</b> <b>2pcs</b> <b>5pcs</b> <b>10pcs</b>
054-525-346	100 x 100 mm	USD 204.00 USD 279.00 USD 502.00 USD 873.00

Typical Analysis : Ag 3, Ca 20, Cr 50, Cu 210, Fe 4700, Ga 500, Mg 70, Mn 300, Ni 300, Pb 100, Si 1600, Sn 50, Ti 700, V 70, Zn 130.

<b>AL000320</b>	Thickness . . . . . 0.003mm	Purity . . . . . 99.1%
<b>Sizes LT</b>		<b>Quantity</b>
<b>Web Code</b>	<b>Size</b>	<b>1pc</b> <b>2pcs</b> <b>5pcs</b> <b>10pcs</b> <b>20pcs</b>
700-443-310	100 x 100 mm	USD 199.00 USD 268.00 USD 474.00 USD 818.00 USD 1507.00

Typical Analysis : Ag 3, Ca 20, Cr 50, Cu 210, Fe 4700, Ga 500, Mg 70, Mn 300, Ni 300, Pb 100, Si 1600, Sn 50, Ti 700, V 70, Zn 130.

<b>AL000345</b>	Thickness . . . . . 0.0045mm	Purity . . . . . 99.0%
<b>Sizes LT</b>		<b>Quantity</b>
<b>Web Code</b>	<b>Size</b>	<b>1pc</b> <b>2pcs</b> <b>5pcs</b> <b>10pcs</b> <b>20pcs</b>
860-221-434	25 x 25 mm	USD 192.00 USD 209.00 USD 255.00 USD 324.00 USD 456.00
600-191-963	50 x 50 mm	USD 206.00 USD 229.00 USD 287.00 USD 369.00 USD 532.00
177-743-098	100 x 100 mm	USD 235.00 USD 270.00 USD 363.00 USD 561.00 USD 955.00
579-499-148	150 x 150 mm	USD 263.00 USD 316.00 USD 539.00 USD 912.00
738-250-727	300 x 300 mm	USD 431.00 USD 696.00 USD 1489.00

Typical Analysis : Cu <1000, Fe <7000, Mn <1000, Si <5000, Zn <1000.

Metal - Aluminum

**Aluminum**

**Al**



**Foil**

**AL000360**

Thickness ..... **0.006mm**

Purity..... **99.0%**

**NLT Sizes**

**Web Code**

173-498-577  
 158-833-205  
 395-931-225  
 922-794-472  
 543-801-017

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 190.00	USD 207.00	USD 251.00	USD 318.00	USD 447.00
50 x 50 mm	USD 203.00	USD 224.00	USD 278.00	USD 358.00	USD 503.00
100 x 100 mm	USD 228.00	USD 259.00	USD 334.00	USD 493.00	USD 821.00
150 x 150 mm	USD 252.00	USD 295.00	USD 464.00	USD 762.00	
300 x 300 mm	USD 371.00	USD 575.00	USD 1188.00		

**Sizes LT**

**Web Code**

646-535-543  
 195-278-248

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 285.00	USD 310.00	USD 376.00	USD 478.00	USD 671.00
50 x 50 mm	USD 304.00	USD 336.00	USD 418.00	USD 537.00	USD 755.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000363**

Thickness ..... **0.008mm**

Purity..... **99.0%**

**NLT Sizes**

**Web Code**

293-974-044  
 251-384-586  
 192-156-828  
 664-508-655  
 136-781-954

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 156.00	USD 173.00	USD 218.00	USD 286.00	USD 386.00
50 x 50 mm	USD 170.00	USD 194.00	USD 251.00	USD 333.00	USD 452.00
100 x 100 mm	USD 200.00	USD 235.00	USD 317.00	USD 426.00	USD 584.00
150 x 150 mm	USD 229.00	USD 277.00	USD 382.00	USD 519.00	USD 715.00
300 x 300 mm	USD 318.00	USD 402.00	USD 580.00	USD 799.00	USD 1111.00

**Sizes LT**

**Web Code**

011-188-320  
 410-405-262

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 171.00	USD 190.00	USD 239.00	USD 315.00	USD 425.00
50 x 50 mm	USD 204.00	USD 232.00	USD 301.00	USD 399.00	USD 542.00

**Coil**

**Web Code**

307-722-238  
 465-286-670  
 160-834-576  
 104-316-491

Width 300mm	Quantity	
Length	1 Reel	
1 m	USD 656.00	
2 m	USD 790.00	
5 m	USD 1059.00	
10 m	USD 1363.00	

**Disks**

**Web Code**

039-557-548  
 944-696-422  
 087-054-152  
 881-765-381  
 220-672-431  
 584-057-763  
 007-217-293

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 368.00	USD 460.00	USD 732.00
6 mm	USD 372.00	USD 465.00	USD 741.00
8 mm	USD 376.00	USD 471.00	USD 750.00
10 mm	USD 380.00	USD 477.00	USD 760.00
15 mm	USD 390.00	USD 491.00	USD 782.00
25 mm	USD 411.00	USD 520.00	USD 828.00
50 mm	USD 462.00	USD 593.00	USD 943.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000364**

Thickness ..... **0.009mm**

Purity..... **99.0%**

**NLT Sizes**

**Web Code**

314-927-069  
 277-901-628  
 802-094-258  
 809-498-318  
 972-004-029

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 155.00	USD 172.00	USD 216.00	USD 284.00	USD 383.00
50 x 50 mm	USD 169.00	USD 192.00	USD 248.00	USD 329.00	USD 446.00
100 x 100 mm	USD 197.00	USD 231.00	USD 310.00	USD 417.00	USD 572.00
150 x 150 mm	USD 225.00	USD 271.00	USD 373.00	USD 506.00	USD 697.00
300 x 300 mm	USD 309.00	USD 390.00	USD 562.00	USD 773.00	USD 1074.00

**Sizes LT**

**Web Code**

848-844-730  
 235-451-445

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 170.00	USD 189.00	USD 238.00	USD 313.00	USD 421.00
50 x 50 mm	USD 203.00	USD 230.00	USD 297.00	USD 394.00	USD 535.00

**Disks**

**Web Code**

676-981-966  
 622-745-516  
 843-194-878  
 399-357-621  
 919-703-655  
 962-951-576  
 368-943-146

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 367.00	USD 459.00	USD 731.00
6 mm	USD 371.00	USD 465.00	USD 740.00
8 mm	USD 375.00	USD 470.00	USD 749.00
10 mm	USD 379.00	USD 476.00	USD 757.00
15 mm	USD 389.00	USD 489.00	USD 779.00
25 mm	USD 408.00	USD 517.00	USD 823.00
50 mm	USD 457.00	USD 586.00	USD 932.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**Aluminum**

**Al**



**Foil**

**AL000375**

Thickness ..... **0.010mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

**NLT Sizes**

**Web Code**

836-908-045  
 347-620-460  
 498-509-056

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 307.00	USD 368.00	USD 462.00
50 x 50 mm	USD 415.00	USD 521.00	USD 704.00
100 x 100 mm	USD 632.00	USD 945.00	

**Sizes LT**

**Web Code**

014-351-263  
 005-217-836

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 338.00	USD 405.00	USD 508.00
50 x 50 mm	USD 519.00	USD 651.00	USD 880.00

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.

Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000370**

Thickness ..... **0.010mm**

Purity ..... **99.0%**

**NLT Sizes**

**Web Code**

704-243-225  
 593-832-556  
 684-337-908  
 870-190-501  
 977-094-170

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 176.00	USD 184.00	USD 204.00	USD 233.00	USD 286.00
50 x 50 mm	USD 186.00	USD 198.00	USD 226.00	USD 264.00	USD 329.00
100 x 100 mm	USD 205.00	USD 225.00	USD 269.00	USD 325.00	USD 416.00
150 x 150 mm	USD 224.00	USD 252.00	USD 312.00	USD 386.00	USD 503.00
300 x 300 mm	USD 282.00	USD 335.00	USD 442.00	USD 570.00	USD 763.00

**Sizes LT**

**Web Code**

834-297-923  
 481-287-447  
 015-282-193

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 193.00	USD 202.00	USD 224.00	USD 256.00	USD 315.00
50 x 50 mm	USD 223.00	USD 237.00	USD 271.00	USD 316.00	USD 395.00
100 x 100 mm	USD 307.00	USD 337.00	USD 403.00	USD 488.00	USD 624.00

**Coil**

**Web Code**

744-492-114  
 519-751-862  
 019-959-035  
 115-436-887  
 827-610-715

Length	Quantity
	1 Reel
1 m	USD 426.00
2 m	USD 515.00
5 m	USD 693.00
10 m	USD 895.00
20 m	USD 1260.00

**Disks**

**Web Code**

606-148-054  
 768-506-464  
 063-304-402  
 913-052-008  
 131-511-571  
 438-944-133  
 868-021-052

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 324.00	USD 370.00	USD 491.00
6 mm	USD 326.00	USD 374.00	USD 497.00
8 mm	USD 329.00	USD 378.00	USD 503.00
10 mm	USD 332.00	USD 382.00	USD 509.00
15 mm	USD 339.00	USD 391.00	USD 525.00
25 mm	USD 352.00	USD 410.00	USD 555.00
50 mm	USD 386.00	USD 458.00	USD 630.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000380**

Thickness ..... **0.0125mm**

Purity ..... **99.0%**

**NLT Sizes**

**Web Code**

306-040-256  
 341-517-452  
 572-049-963

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 x 100 mm	USD 164.00	USD 182.00	USD 222.00	USD 276.00	USD 357.00
150 x 150 mm	USD 179.00	USD 202.00	USD 254.00	USD 322.00	USD 421.00
300 x 300 mm	USD 222.00	USD 264.00	USD 351.00	USD 459.00	

**Sizes LT**

**Web Code**

566-253-184  
 228-110-268  
 758-193-474

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 143.00	USD 151.00	USD 174.00	USD 208.00	USD 260.00
50 x 50 mm	USD 150.00	USD 161.00	USD 190.00	USD 231.00	USD 292.00
100 x 100 mm	USD 205.00	USD 227.00	USD 277.00	USD 345.00	USD 446.00

**Disks**

**Web Code**

666-150-154  
 268-766-619  
 595-826-160  
 478-274-685  
 784-330-728  
 041-343-946  
 167-990-350

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 303.00	USD 351.00	USD 454.00
6 mm	USD 305.00	USD 354.00	USD 458.00
8 mm	USD 307.00	USD 357.00	USD 463.00
10 mm	USD 309.00	USD 360.00	USD 467.00
15 mm	USD 314.00	USD 367.00	USD 479.00
25 mm	USD 324.00	USD 381.00	USD 501.00
50 mm	USD 349.00	USD 417.00	USD 557.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**Metal - Aluminum**

**Aluminum**

**Al**



**Foil**

**AL000391**

Thickness ..... **0.015mm**

High Purity ..... **99.999%**

**NLT Sizes**

**Web Code**

630-717-600  
 047-367-296  
 822-882-009  
 709-593-478

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 303.00	USD 363.00	USD 454.00	USD 559.00	USD 712.00
50 x 50 mm	USD 408.00	USD 511.00	USD 688.00	USD 1079.00	
50 x 100 mm	USD 495.00	USD 633.00	USD 1071.00		
100 x 100 mm	USD 617.00	USD 896.00			

**Sizes LT**

**Web Code**

354-860-623  
 779-360-803

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 334.00	USD 399.00	USD 499.00	USD 614.00	USD 783.00
50 x 50 mm	USD 510.00	USD 638.00	USD 860.00	USD 1348.00	

**Disks**

**Web Code**

369-903-444  
 237-925-197  
 740-642-922  
 580-367-098  
 545-877-395  
 234-673-945

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 424.00	USD 470.00	USD 582.00
6 mm	USD 456.00	USD 516.00	USD 655.00
8 mm	USD 489.00	USD 563.00	USD 730.00
10 mm	USD 522.00	USD 609.00	USD 806.00
15 mm	USD 602.00	USD 724.00	USD 988.00
25 mm	USD 764.00	USD 954.00	

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.

**AL000392**

Thickness ..... **0.015mm**  
 Temper ..... **Annealed**

Purity ..... **99.0%**

**NLT Sizes**

**Web Code**

848-306-766

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
300 x 300 mm	USD 218.00	USD 257.00	USD 342.00	USD 445.00	

**Sizes LT**

**Web Code**

207-396-854  
 163-255-792  
 824-522-036  
 486-274-126

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 142.00	USD 151.00	USD 173.00	USD 207.00	USD 258.00
50 x 50 mm	USD 149.00	USD 160.00	USD 188.00	USD 228.00	USD 289.00
100 x 100 mm	USD 163.00	USD 180.00	USD 219.00	USD 272.00	USD 350.00
150 x 150 mm	USD 177.00	USD 199.00	USD 249.00	USD 315.00	USD 412.00

**Coil**

**Web Code**

754-033-244  
 254-154-676  
 769-331-437  
 166-435-384  
 804-417-601

Length	Quantity
	1 Reel
1 m	USD 333.00
2 m	USD 397.00
5 m	USD 525.00
10 m	USD 670.00
20 m	USD 932.00

**Disks**

**Web Code**

552-204-191  
 025-523-187  
 190-397-879  
 799-729-475  
 966-186-282  
 773-286-141  
 660-766-455

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 303.00	USD 351.00	USD 453.00
6 mm	USD 305.00	USD 354.00	USD 458.00
8 mm	USD 307.00	USD 357.00	USD 462.00
10 mm	USD 309.00	USD 359.00	USD 466.00
15 mm	USD 313.00	USD 366.00	USD 477.00
25 mm	USD 323.00	USD 380.00	USD 498.00
50 mm	USD 347.00	USD 413.00	USD 552.00

Typical Analysis : Cu <1000, Fe <7000, Mn <1000, Si <5000, Zn <1000.

**Metal – Aluminum**

**Aluminum**

**Al**



**Foil**

**AL000395**

Thickness ..... **0.018mm**  
 Temper ..... **Annealed**

Purity ..... **99.0%**

**NLT Sizes**

**Web Code**  
 916-702-272

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
300 x 300 mm	USD 213.00	USD 251.00	USD 333.00	USD 434.00	

**Sizes LT**

**Web Code**  
 085-381-275  
 699-125-137  
 435-476-104  
 135-402-277  
 580-091-148

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 140.00	USD 148.00	USD 170.00	USD 203.00	USD 253.00
50 x 50 mm	USD 146.00	USD 157.00	USD 184.00	USD 224.00	USD 283.00
100 x 100 mm	USD 160.00	USD 176.00	USD 214.00	USD 266.00	USD 342.00
150 x 150 mm	USD 173.00	USD 195.00	USD 244.00	USD 308.00	USD 402.00
300 x 300 mm	USD 266.00	USD 314.00	USD 416.00	USD 542.00	

**Coil**

**Web Code**  
 670-131-646  
 766-450-420  
 806-304-126  
 788-015-091  
 501-879-111

Length	Quantity	
	1 Reel	
1 m	USD 314.00	
2 m	USD 375.00	
5 m	USD 497.00	
10 m	USD 637.00	
20 m	USD 837.00	

**Disks**

**Web Code**  
 734-894-490  
 861-803-398  
 725-413-797  
 676-714-123  
 589-262-688  
 657-831-774  
 228-963-774

Diameter	Quantity	
	10 disks	
4 mm	USD 300.00	
6 mm	USD 301.00	
8 mm	USD 303.00	
10 mm	USD 305.00	
15 mm	USD 310.00	
25 mm	USD 319.00	
50 mm	USD 342.00	

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000407**

Thickness ..... **0.020mm**  
 Purity ..... **99.0%**

Coil width ..... **10mm**  
 Temper ..... **Annealed**

**Coil**

**Web Code**  
 763-308-413  
 809-655-251  
 277-101-975  
 077-562-858  
 257-588-495

Length	Quantity	
	1 Reel	
1 m	USD 225.00	
5 m	USD 299.00	
10 m	USD 356.00	
20 m	USD 441.00	
50 m	USD 619.00	

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000406**

Thickness ..... **0.020mm**  
 Purity ..... **99.0%**

Coil width ..... **100mm**  
 Temper ..... **Annealed**

**Coil**

**Web Code**  
 022-028-602  
 154-784-764  
 846-313-500  
 017-189-403  
 902-434-137  
 410-829-155

Length	Quantity	
	1 Reel	
0.5 m	USD 210.00	
1 m	USD 227.00	
2 m	USD 253.00	
5 m	USD 305.00	
10 m	USD 365.00	
20 m	USD 453.00	

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000400**

Thickness ..... **0.020mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

**NLT Sizes**

**Web Code**  
 214-465-246

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
100 x 100 mm	USD 586.00	USD 753.00	USD 1088.00	

**Sizes LT**

**Web Code**  
 791-194-343  
 808-557-367  
 566-628-472

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 289.00	USD 333.00	USD 423.00	USD 530.00
50 x 50 mm	USD 388.00	USD 473.00	USD 645.00	USD 843.00
100 x 100 mm	USD 703.00	USD 904.00	USD 1305.00	

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

Metal - Aluminum

**Aluminum**

**Al**



**Foil**

**AL000405**

Thickness ..... **0.020mm**  
 Temper ..... **Annealed**

Purity ..... **99.0%**

**NLT Sizes**

**Web Code**  
 056-552-365

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
300 x 300 mm	USD 189.00	USD 218.00	USD 280.00	USD 360.00	

**Sizes LT**

**Web Code**  
 684-383-910  
 488-434-891  
 383-342-145  
 854-995-226  
 053-010-764

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 138.00	USD 145.00	USD 165.00	USD 197.00	USD 245.00
50 x 50 mm	USD 142.00	USD 152.00	USD 176.00	USD 212.00	USD 266.00
100 x 100 mm	USD 152.00	USD 165.00	USD 197.00	USD 241.00	USD 307.00
150 x 150 mm	USD 161.00	USD 178.00	USD 218.00	USD 271.00	USD 349.00
300 x 300 mm	USD 237.00	USD 272.00	USD 351.00	USD 449.00	

**Coil**

**Web Code**  
 880-745-460  
 093-178-193  
 647-267-793  
 908-467-601  
 558-457-603

Length	Quantity	
	1 Reel	
1 m	USD 272.00	
2 m	USD 316.00	
5 m	USD 404.00	
10 m	USD 504.00	
20 m	USD 744.00	

**Disks**

**Web Code**  
 807-208-274  
 901-025-412  
 628-178-240  
 522-285-373  
 285-674-803  
 709-361-955  
 670-243-138

Diameter	Quantity	
	10 disks	
4 mm	USD 298.00	
6 mm	USD 300.00	
8 mm	USD 301.00	
10 mm	USD 302.00	
15 mm	USD 306.00	
25 mm	USD 312.00	
50 mm	USD 328.00	

Typical Analysis : Cu <1000, Fe <7000, Mn <1000, Si <5000, Zn <1000.

**AL000421**

Thickness ..... **0.025mm**  
 Purity ..... **99.0%**

Coil width ..... **25mm**  
 Temper ..... **Annealed**

**Coil**

**Web Code**  
 690-243-484  
 894-017-320  
 932-787-628  
 002-843-414  
 024-114-793

Length	Quantity	
	1 Reel	
1 m	USD 179.00	
2 m	USD 191.00	
5 m	USD 224.00	
10 m	USD 272.00	
20 m	USD 363.00	

Typical Analysis : Cu <1000, Fe <7000, Mn <1000, Si <5000, Zn <1000.

**AL000431**

Thickness ..... **0.025mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

**NLT Sizes**

**Web Code**  
 480-392-730

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 x 100 mm	USD 522.00	USD 663.00	USD 945.00		

**Sizes LT**

**Web Code**  
 970-751-768  
 333-554-140

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 273.00	USD 310.00	USD 388.00	USD 480.00	USD 618.00
50 x 50 mm	USD 356.00	USD 428.00	USD 573.00	USD 742.00	

**Disks**

**Web Code**  
 996-471-624  
 558-955-416  
 869-435-493  
 679-430-658  
 928-830-229  
 103-784-363  
 973-038-779

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 398.00	USD 455.00	USD 587.00
6 mm	USD 423.00	USD 491.00	USD 644.00
8 mm	USD 448.00	USD 526.00	USD 700.00
10 mm	USD 474.00	USD 562.00	USD 756.00
15 mm	USD 537.00	USD 651.00	USD 897.00
25 mm	USD 663.00	USD 829.00	
50 mm	USD 978.00		

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.

Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.



**Aluminum**

**Al**



**Foil**

**AL000420**

Thickness ..... **0.025mm**  
 Temper ..... **Hard**

Purity ..... **99.0%**

**Size**

**Web Code**

049-963-450  
 245-433-561  
 679-192-488  
 899-057-758  
 382-219-724

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 132.00	USD 140.00	USD 164.00	USD 202.00	USD 252.00
50 x 50 mm	USD 134.00	USD 143.00	USD 168.00	USD 208.00	USD 261.00
100 x 100 mm	USD 138.00	USD 148.00	USD 177.00	USD 220.00	USD 278.00
150 x 150 mm	USD 142.00	USD 154.00	USD 185.00	USD 233.00	USD 295.00
300 x 300 mm	USD 153.00	USD 170.00	USD 211.00	USD 269.00	USD 347.00

**Coil**

**Web Code**

777-468-219  
 183-528-856  
 941-109-712  
 638-722-971  
 840-367-422

Width 300mm	Length	Quantity
		1 Reel
	1 m	USD 204.00
	2 m	USD 224.00
	5 m	USD 265.00
	10 m	USD 315.00
	20 m	USD 393.00

**Disks**

**Web Code**

045-931-913  
 741-491-284  
 686-403-630  
 800-458-615  
 057-336-608  
 167-085-183  
 885-643-820

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 323.00	USD 381.00	USD 461.00
6 mm	USD 324.00	USD 382.00	USD 462.00
8 mm	USD 324.00	USD 383.00	USD 463.00
10 mm	USD 325.00	USD 383.00	USD 465.00
15 mm	USD 327.00	USD 385.00	USD 468.00
25 mm	USD 329.00	USD 390.00	USD 475.00
50 mm	USD 337.00	USD 400.00	USD 491.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000422**

Thickness ..... **0.025mm**  
 Temper ..... **Annealed**

Purity ..... **99.0%**

**Size**

**Web Code**

924-108-603  
 340-080-721  
 172-358-286  
 089-886-097  
 445-262-694

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 132.00	USD 140.00	USD 164.00	USD 202.00	USD 252.00
50 x 50 mm	USD 134.00	USD 143.00	USD 168.00	USD 208.00	USD 261.00
100 x 100 mm	USD 138.00	USD 148.00	USD 177.00	USD 220.00	USD 278.00
150 x 150 mm	USD 142.00	USD 154.00	USD 185.00	USD 233.00	USD 295.00
300 x 300 mm	USD 153.00	USD 170.00	USD 211.00	USD 269.00	USD 347.00

**Coil**

**Web Code**

858-713-240  
 447-202-981  
 929-507-798  
 634-840-616  
 455-873-241

Width 305mm	Length	Quantity
		1 Reel
	1 m	USD 204.00
	2 m	USD 224.00
	5 m	USD 266.00
	10 m	USD 317.00
	20 m	USD 395.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000434**

Thickness ..... **0.030mm**  
 Temper ..... **Annealed**

Purity ..... **99.0%**

**Size**

**Web Code**

909-042-049  
 630-251-413  
 781-431-489  
 678-932-833  
 866-603-096

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 132.00	USD 140.00	USD 164.00	USD 203.00	USD 253.00
50 x 50 mm	USD 134.00	USD 143.00	USD 169.00	USD 209.00	USD 262.00
100 x 100 mm	USD 138.00	USD 149.00	USD 178.00	USD 223.00	USD 281.00
150 x 150 mm	USD 143.00	USD 155.00	USD 188.00	USD 236.00	USD 300.00
300 x 300 mm	USD 155.00	USD 173.00	USD 216.00	USD 276.00	USD 357.00

**Coil**

**Web Code**

325-379-099  
 672-386-803  
 048-350-556  
 043-820-853  
 477-606-551

Width 305mm	Length	Quantity
		1 Reel
	1 m	USD 208.00
	2 m	USD 230.00
	5 m	USD 275.00
	10 m	USD 330.00
	20 m	USD 413.00

**Disks**

**Web Code**

700-824-671  
 603-081-756  
 385-218-850  
 152-351-527  
 043-949-989  
 493-744-569  
 718-069-123

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 323.00	USD 381.00	USD 461.00
6 mm	USD 324.00	USD 382.00	USD 462.00
8 mm	USD 325.00	USD 383.00	USD 464.00
10 mm	USD 325.00	USD 384.00	USD 465.00
15 mm	USD 327.00	USD 386.00	USD 469.00
25 mm	USD 330.00	USD 391.00	USD 476.00
50 mm	USD 338.00	USD 402.00	USD 494.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**Aluminum**

**Al**



**Foil**

**AL000437**

Thickness ..... **0.040mm**  
 Purity..... **99.0%**

Coil width ..... **31.4mm**  
 Temper..... **Annealed**

<b>Coil</b>	<b>Width 31.4mm</b>	<b>Quantity</b>
<b>Web Code</b>	<b>Length</b>	<b>1 Reel</b>
303-390-420	1 m	USD 179.00
950-449-019	5 m	USD 209.00
623-455-271	10 m	USD 236.00
378-608-137	20 m	USD 281.00
645-284-762	50 m	USD 392.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000438**

Thickness ..... **0.040mm**  
 Purity..... **99.0%**

Coil width ..... **50mm**  
 Temper..... **Hard**

<b>Coil</b>	<b>Width 50mm</b>	<b>Quantity</b>
<b>Web Code</b>	<b>Length</b>	<b>1 Reel</b>
973-598-129	1 m	USD 208.00
370-790-516	5 m	USD 275.00
751-117-466	10 m	USD 330.00
119-490-150	20 m	USD 413.00
797-401-534	50 m	USD 601.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000435**

Thickness ..... **0.040mm**  
 Temper..... **Annealed**

Purity..... **99.0%**

<b>Size</b>	<b>Quantity</b>
<b>Web Code</b>	<b>Size</b>
758-638-745	25 x 25 mm
829-846-076	50 x 50 mm
730-755-529	100 x 100 mm
344-449-973	150 x 150 mm
056-244-455	300 x 300 mm

	<b>1pc</b>	<b>2pcs</b>	<b>5pcs</b>	<b>10pcs</b>	<b>20pcs</b>
	USD 132.00	USD 141.00	USD 165.00	USD 204.00	USD 254.00
	USD 135.00	USD 144.00	USD 170.00	USD 211.00	USD 265.00
	USD 140.00	USD 151.00	USD 181.00	USD 227.00	USD 287.00
	USD 145.00	USD 158.00	USD 192.00	USD 242.00	USD 309.00
	USD 159.00	USD 179.00	USD 225.00	USD 289.00	USD 375.00

<b>Coil</b>	<b>Width 300mm</b>	<b>Quantity</b>
<b>Web Code</b>	<b>Length</b>	<b>1 Reel</b>
030-560-711	1 m	USD 215.00
820-091-001	2 m	USD 240.00
511-378-834	5 m	USD 290.00
922-352-926	10 m	USD 351.00
294-114-907	20 m	USD 443.00

<b>Disks</b>	<b>Quantity</b>
<b>Web Code</b>	<b>Diameter</b>
764-364-005	4 mm
545-504-033	6 mm
188-003-551	8 mm
500-439-785	10 mm
554-962-908	15 mm
370-365-827	25 mm
295-726-783	50 mm

	<b>10 disks</b>	<b>20 disks</b>	<b>50 disks</b>
	USD 324.00	USD 381.00	USD 461.00
	USD 324.00	USD 382.00	USD 463.00
	USD 325.00	USD 383.00	USD 465.00
	USD 326.00	USD 384.00	USD 466.00
	USD 328.00	USD 387.00	USD 471.00
	USD 331.00	USD 392.00	USD 479.00
	USD 341.00	USD 406.00	USD 500.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000485**

Thickness ..... **0.050mm**  
 High Purity..... **99.99+%**

Coil width ..... **.1mm**  
 Temper..... **Half hard**

<b>Coil</b>	<b>Width 0.1mm</b>	<b>Quantity</b>
<b>Web Code</b>	<b>Length</b>	<b>1 Reel</b>
440-921-668	0.5 m	USD 257.00
631-368-637	1 m	USD 299.00
641-281-028	2 m	USD 363.00
745-943-919	5 m	USD 507.00
251-527-021	10 m	USD 752.00

Typical Analysis : Ag 1, Ca 2, Cu 5, Fe 8, Ga 2, Mg 20, Na 1, Ni 2, Pb 2, Si 7.

**AL000492**

Thickness ..... **0.05mm**  
 Purity..... **99.0%**

Coil width ..... **6mm**  
 Temper..... **Annealed**

<b>Coil</b>	<b>Width 6mm</b>	<b>Quantity</b>
<b>Web Code</b>	<b>Length</b>	<b>1 Reel</b>
425-531-778	0.5 m	USD 167.00
799-565-670	1 m	USD 176.00
401-160-681	2 m	USD 191.00
184-590-295	5 m	USD 228.00
573-616-643	10 m	USD 282.00
223-958-543	20 m	USD 380.00
172-331-749	50 m	USD 651.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**Metal - Aluminum**

**Aluminum**

**Al**



**Foil**

**AL000491**

Thickness ..... **0.05mm**  
 Purity ..... **99.0%**

Coil width ..... **10mm**  
 Temper ..... **Annealed**

**Coil**

**Web Code**  
 329-012-307  
 723-194-064  
 760-708-868  
 088-036-160  
 653-387-916

**Width 10mm**

Length	1 Reel
0.5 m	USD 165.00
1 m	USD 172.00
2 m	USD 182.00
5 m	USD 204.00
10 m	USD 233.00

**Quantity**

Typical Analysis : Cu <1000, Fe <7000, Mn <1000, Si <5000, Zn <1000.

**AL000481**

Thickness ..... **0.050mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

**Size**

**Web Code**  
 418-741-493  
 342-676-862  
 834-604-617  
 325-580-036  
 845-245-646

**Size**

25 x 25 mm	USD 245.00
50 x 50 mm	USD 297.00
100 x 100 mm	USD 401.00
150 x 150 mm	USD 506.00
250 x 300 mm	USD 764.00

	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 245.00	USD 272.00	USD 331.00	USD 407.00	USD 512.00
50 x 50 mm	USD 297.00	USD 346.00	USD 448.00	USD 572.00	USD 745.00
100 x 100 mm	USD 401.00	USD 493.00	USD 681.00	USD 902.00	USD 1212.00
150 x 150 mm	USD 506.00	USD 641.00	USD 915.00		
250 x 300 mm	USD 764.00	USD 1007.00			

**Coil**

**Web Code**  
 423-610-623  
 188-769-984

**Width 250mm**

Length	1 Reel
0.5 m	USD 976.00
1 m	USD 1282.00

**Quantity**

**Disks**

**Web Code**  
 799-428-093  
 928-501-278  
 062-657-172  
 832-138-721  
 017-349-596  
 168-699-874  
 087-480-072

**Diameter**

4 mm	USD 373.00
6 mm	USD 386.00
8 mm	USD 399.00
10 mm	USD 412.00
15 mm	USD 445.00
25 mm	USD 511.00
50 mm	USD 677.00

	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 373.00	USD 420.00	USD 552.00
6 mm	USD 386.00	USD 439.00	USD 581.00
8 mm	USD 399.00	USD 458.00	USD 611.00
10 mm	USD 412.00	USD 476.00	USD 640.00
15 mm	USD 445.00	USD 523.00	USD 714.00
25 mm	USD 511.00	USD 616.00	USD 862.00
50 mm	USD 677.00	USD 850.00	USD 1232.00

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000441**

Thickness ..... **0.050mm**  
 Temper ..... **Hard**

Purity ..... **99.0%**

**Size**

**Web Code**  
 385-901-519  
 237-690-520  
 711-317-449  
 914-681-879  
 335-225-339

**Size**

25 x 25 mm	USD 128.00
50 x 50 mm	USD 131.00
100 x 100 mm	USD 136.00
150 x 150 mm	USD 142.00
300 x 300 mm	USD 158.00

	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 128.00	USD 137.00	USD 161.00	USD 201.00	USD 253.00
50 x 50 mm	USD 131.00	USD 141.00	USD 167.00	USD 209.00	USD 265.00
100 x 100 mm	USD 136.00	USD 148.00	USD 180.00	USD 227.00	USD 289.00
150 x 150 mm	USD 142.00	USD 156.00	USD 192.00	USD 244.00	USD 314.00
300 x 300 mm	USD 158.00	USD 179.00	USD 228.00	USD 296.00	USD 387.00

**Coil**

**Web Code**  
 903-162-905  
 895-370-913  
 921-371-580  
 171-448-509  
 431-070-943

**Width 300mm**

Length	1 Reel
0.5 m	USD 194.00
1 m	USD 212.00
2 m	USD 239.00
5 m	USD 295.00
10 m	USD 362.00

**Quantity**

**Disks**

**Web Code**  
 883-873-967  
 484-244-173  
 530-521-285  
 315-151-284  
 393-912-072  
 239-003-747  
 875-468-641

**Diameter**

4 mm	USD 296.00
6 mm	USD 296.00
8 mm	USD 297.00
10 mm	USD 298.00
15 mm	USD 300.00
25 mm	USD 304.00
50 mm	USD 315.00

	Quantity			
	10 disks	20 disks	50 disks	100 disks
4 mm	USD 296.00	USD 354.00	USD 437.00	USD 573.00
6 mm	USD 296.00	USD 355.00	USD 438.00	USD 576.00
8 mm	USD 297.00	USD 356.00	USD 440.00	USD 578.00
10 mm	USD 298.00	USD 358.00	USD 442.00	USD 581.00
15 mm	USD 300.00	USD 361.00	USD 447.00	USD 588.00
25 mm	USD 304.00	USD 366.00	USD 456.00	USD 601.00
50 mm	USD 315.00	USD 381.00	USD 479.00	USD 634.00

Typical Analysis : Cu <1000, Fe <7000, Mn <1000, Si <5000, Zn <1000.

Metal - Aluminum

**Aluminum**

**Al**



**Foil**

**AL000490**

Thickness ..... **0.05mm**  
 Temper ..... **Annealed**

Purity ..... **99.0%**

**Size**

**Web Code**  
 981-042-825  
 630-358-050

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
150 x 150 mm	USD 142.00	USD 156.00	USD 192.00	USD 244.00	USD 314.00
300 x 300 mm	USD 158.00	USD 179.00	USD 228.00	USD 296.00	USD 387.00

**Coil**

**Web Code**  
 156-923-392  
 819-121-573  
 723-271-687  
 087-085-203  
 323-085-236  
 370-119-781

Length	Quantity	
	1 Reel	
0.5 m	USD 194.00	
1 m	USD 213.00	
2 m	USD 240.00	
5 m	USD 296.00	
10 m	USD 364.00	
20 m	USD 476.00	

Typical Analysis : Cu <1000, Fe <7000, Mn <1000, Si <5000, Zn <1000.

**AL000510**

Thickness ..... **0.060mm**  
 Temper ..... **Annealed**

Purity ..... **99.0%**

**Size**

**Web Code**  
 408-693-887  
 086-732-629  
 841-576-904  
 197-119-083  
 639-886-667

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 133.00	USD 141.00	USD 166.00	USD 205.00	USD 256.00
50 x 50 mm	USD 136.00	USD 145.00	USD 172.00	USD 214.00	USD 269.00
100 x 100 mm	USD 141.00	USD 153.00	USD 185.00	USD 232.00	USD 294.00
150 x 150 mm	USD 147.00	USD 161.00	USD 197.00	USD 250.00	USD 320.00
300 x 300 mm	USD 164.00	USD 185.00	USD 235.00	USD 304.00	USD 396.00

**Coil**

**Web Code**  
 985-832-509  
 229-071-785  
 633-963-665  
 245-453-582  
 681-695-833

Length	Quantity	
	1 Reel	
1 m	USD 224.00	
2 m	USD 252.00	
5 m	USD 309.00	
10 m	USD 378.00	
20 m	USD 482.00	

**Disks**

**Web Code**  
 211-982-146  
 497-763-281  
 220-402-000  
 550-261-982  
 782-738-502  
 842-324-036  
 290-504-663

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 324.00	USD 382.00	USD 462.00
6 mm	USD 325.00	USD 383.00	USD 464.00
8 mm	USD 326.00	USD 384.00	USD 466.00
10 mm	USD 326.00	USD 385.00	USD 468.00
15 mm	USD 329.00	USD 388.00	USD 473.00
25 mm	USD 333.00	USD 394.00	USD 482.00
50 mm	USD 344.00	USD 410.00	USD 506.00

Typical Analysis : Cu <1000, Fe <7000, Mn <1000, Si <5000, Zn <1000.

**AL000520**

Thickness ..... **0.075mm**  
 Temper ..... **Hard**

Purity ..... **99.0%**

**Size**

**Web Code**  
 313-082-419  
 135-302-480  
 912-801-014  
 100-129-706  
 516-213-970

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 139.00	USD 143.00	USD 154.00	USD 171.00	USD 203.00
50 x 50 mm	USD 142.00	USD 146.00	USD 159.00	USD 178.00	USD 213.00
100 x 100 mm	USD 146.00	USD 153.00	USD 169.00	USD 192.00	USD 233.00
150 x 150 mm	USD 151.00	USD 159.00	USD 179.00	USD 206.00	USD 253.00
300 x 300 mm	USD 164.00	USD 178.00	USD 209.00	USD 248.00	USD 313.00

**Coil**

**Web Code**  
 526-743-963  
 842-993-163  
 374-144-810  
 768-108-337  
 013-549-465

Length	Quantity	
	1 Reel	
1 m	USD 205.00	
2 m	USD 226.00	
5 m	USD 269.00	
10 m	USD 320.00	
20 m	USD 430.00	

**Disks**

**Web Code**  
 693-680-687  
 710-085-019  
 760-633-614  
 079-202-003  
 900-255-898  
 531-976-341  
 497-049-706

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 269.00	USD 299.00	USD 372.00
6 mm	USD 270.00	USD 300.00	USD 374.00
8 mm	USD 270.00	USD 300.00	USD 375.00
10 mm	USD 271.00	USD 301.00	USD 376.00
15 mm	USD 272.00	USD 303.00	USD 379.00
25 mm	USD 275.00	USD 307.00	USD 386.00
50 mm	USD 282.00	USD 317.00	USD 402.00

Typical Analysis : Cu <1000, Fe <7000, Mn <1000, Si <5000, Zn <1000.

**Aluminum**

**Al**



**Foil**

**AL000530**

Thickness ..... **0.075mm**  
 Temper ..... **Annealed**

Purity ..... **99.0%**

**Size**

**Web Code**

131-218-623  
 402-332-040  
 291-502-434  
 437-805-188  
 725-640-489

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 139.00	USD 143.00	USD 154.00	USD 171.00	USD 203.00
50 x 50 mm	USD 142.00	USD 146.00	USD 159.00	USD 178.00	USD 213.00
100 x 100 mm	USD 146.00	USD 153.00	USD 169.00	USD 192.00	USD 233.00
150 x 150 mm	USD 151.00	USD 159.00	USD 179.00	USD 206.00	USD 253.00
300 x 300 mm	USD 164.00	USD 178.00	USD 209.00	USD 248.00	USD 313.00

**Coil**

**Web Code**

705-056-143  
 132-013-332  
 501-663-122  
 707-893-597  
 486-690-701

Length	Quantity	
	1 Reel	
1 m	USD 205.00	
2 m	USD 226.00	
5 m	USD 269.00	
10 m	USD 320.00	
20 m	USD 430.00	

**Disks**

**Web Code**

836-337-774  
 542-213-182  
 776-642-134  
 080-263-871  
 032-980-464  
 122-554-767  
 319-345-507

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 269.00	USD 299.00	USD 372.00
6 mm	USD 270.00	USD 300.00	USD 374.00
8 mm	USD 270.00	USD 300.00	USD 375.00
10 mm	USD 271.00	USD 301.00	USD 376.00
15 mm	USD 272.00	USD 303.00	USD 379.00
25 mm	USD 275.00	USD 307.00	USD 386.00
50 mm	USD 282.00	USD 317.00	USD 402.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000531**

Thickness ..... **0.08mm**  
 Temper ..... **Hard**

Purity ..... **99.0%**

**Size**

**Web Code**

668-226-222  
 633-398-800  
 908-147-542  
 311-266-982  
 679-518-840

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 140.00	USD 143.00	USD 154.00	USD 171.00	USD 203.00
50 x 50 mm	USD 142.00	USD 147.00	USD 159.00	USD 178.00	USD 213.00
100 x 100 mm	USD 146.00	USD 153.00	USD 170.00	USD 193.00	USD 234.00
150 x 150 mm	USD 151.00	USD 160.00	USD 180.00	USD 207.00	USD 255.00
200 x 300 mm	USD 160.00	USD 172.00	USD 199.00	USD 235.00	USD 294.00

**Disks**

**Web Code**

255-283-617  
 437-510-660  
 557-464-231  
 735-905-985  
 728-980-829  
 370-285-059  
 672-104-774

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 269.00	USD 299.00	USD 373.00
6 mm	USD 270.00	USD 300.00	USD 374.00
8 mm	USD 270.00	USD 300.00	USD 375.00
10 mm	USD 271.00	USD 301.00	USD 376.00
15 mm	USD 272.00	USD 303.00	USD 380.00
25 mm	USD 275.00	USD 308.00	USD 386.00
50 mm	USD 283.00	USD 318.00	USD 403.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000540**

Thickness ..... **0.09mm**  
 Temper ..... **Annealed**

Purity ..... **99.99%**

**Size**

**Web Code**

918-194-466  
 774-302-817  
 787-858-365  
 482-299-041

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 260.00	USD 292.00	USD 359.00	USD 438.00	USD 560.00
50 x 50 mm	USD 330.00	USD 391.00	USD 515.00	USD 660.00	USD 873.00
100 x 100 mm	USD 470.00	USD 589.00	USD 828.00	USD 1103.00	USD 1500.00
150 x 150 mm	USD 610.00	USD 787.00	USD 1142.00	USD 1546.00	USD 2126.00

**Coil**

**Web Code**

287-378-944  
 922-374-077  
 296-752-453  
 094-052-113

Length	Quantity	
	1 Reel	
0.5 m	USD 1156.00	
1 m	USD 1537.00	
2 m	USD 2076.00	
5 m	USD 3147.00	

**Disks**

**Web Code**

756-523-085  
 565-380-299  
 672-533-408  
 066-678-929  
 334-874-105  
 859-264-159  
 408-019-021

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 324.00	USD 359.00	USD 443.00
6 mm	USD 338.00	USD 379.00	USD 475.00
8 mm	USD 352.00	USD 399.00	USD 507.00
10 mm	USD 366.00	USD 419.00	USD 538.00
15 mm	USD 402.00	USD 470.00	USD 618.00
25 mm	USD 472.00	USD 570.00	USD 777.00
50 mm	USD 650.00	USD 821.00	USD 1175.00

Typical Analysis : Ca 1, Cu 10, Fe 30, Ga 3, Mg 20, Na 3, Si 20.

**Metal - Aluminum**

**Aluminum**

**Al**



**Foil**

**AL000565**

Thickness ..... **0.1mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

**Size**

**Web Code**  
 105-972-266  
 246-534-609  
 593-236-648  
 154-576-750

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 311.00	USD 364.00	USD 472.00	USD 599.00	USD 788.00
50 x 50 mm	USD 432.00	USD 535.00	USD 743.00	USD 982.00	USD 1328.00
100 x 100 mm	USD 674.00	USD 877.00	USD 1283.00	USD 1746.00	
150 x 150 mm	USD 915.00	USD 1219.00	USD 1824.00		

**Coil**

**Web Code**  
 322-094-992  
 038-618-732

Width 150mm	Quantity	
	Length	1 Reel
	0.5 m	USD 1562.00
	1 m	USD 2111.00

**Disks**

**Web Code**  
 418-725-306  
 340-665-153  
 583-147-530  
 893-446-938  
 680-866-826  
 108-359-405  
 544-930-381

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 402.00	USD 463.00	USD 601.00
6 mm	USD 435.00	USD 510.00	USD 677.00
8 mm	USD 469.00	USD 558.00	USD 752.00
10 mm	USD 503.00	USD 606.00	USD 827.00
15 mm	USD 587.00	USD 725.00	USD 1015.00
25 mm	USD 755.00	USD 963.00	USD 1392.00
50 mm	USD 1176.00	USD 1558.00	

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000562**

Thickness ..... **0.10mm**  
 Purity ..... **99.0%**

Coil width ..... **152mm**  
 Temper ..... **Annealed**

**Coil**

**Web Code**  
 636-008-814  
 295-338-444  
 117-096-607  
 757-705-238  
 127-084-136

Width 152mm	Quantity	
	Length	1 Reel
	1 m	USD 200.00
	2 m	USD 221.00
	5 m	USD 264.00
	10 m	USD 315.00
	20 m	USD 389.00

Typical Analysis : Cu <1000, Fe <7000, Mn <1000, Si <5000, Zn <1000.

**AL000555**

Thickness ..... **0.10mm**  
 Temper ..... **Hard**

Purity ..... **99.0%**

**Size**

**Web Code**  
 854-701-836  
 837-736-713  
 717-093-189  
 636-642-968  
 580-372-059

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 132.00	USD 136.00	USD 146.00	USD 163.00	USD 194.00
50 x 50 mm	USD 134.00	USD 139.00	USD 152.00	USD 171.00	USD 206.00
100 x 100 mm	USD 139.00	USD 146.00	USD 163.00	USD 187.00	USD 229.00
150 x 150 mm	USD 145.00	USD 154.00	USD 175.00	USD 203.00	USD 252.00
300 x 300 mm	USD 160.00	USD 176.00	USD 209.00	USD 252.00	USD 321.00

**Coil**

**Web Code**  
 546-503-255  
 312-905-008  
 113-129-412  
 141-185-336  
 648-173-218  
 021-656-884

Width 305mm	Quantity	
	Length	1 Reel
	0.5 m	USD 187.00
	1 m	USD 205.00
	2 m	USD 229.00
	5 m	USD 279.00
	10 m	USD 337.00
	20 m	USD 444.00

**Disks**

**Web Code**  
 707-108-581  
 388-566-518  
 570-820-809  
 352-607-471  
 075-930-822  
 491-353-052  
 419-136-939

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 260.00	USD 289.00	USD 360.00
6 mm	USD 261.00	USD 290.00	USD 361.00
8 mm	USD 261.00	USD 291.00	USD 363.00
10 mm	USD 262.00	USD 292.00	USD 364.00
15 mm	USD 264.00	USD 294.00	USD 368.00
25 mm	USD 267.00	USD 299.00	USD 375.00
50 mm	USD 275.00	USD 310.00	USD 393.00

Typical Analysis : Cu <1000, Fe <7000, Mn <1000, Si <5000, Zn <1000.

**Metal - Aluminum**

**Aluminum**

**Al**



**Foil**

**AL000557**

Thickness ..... **0.10mm**  
 Temper ..... **Annealed**

Purity ..... **99.0%**

**Size**

**Web Code**

392-118-823  
 014-860-545  
 857-563-608  
 195-453-961  
 431-747-289

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 137.00	USD 142.00	USD 155.00	USD 176.00	USD 217.00
50 x 50 mm	USD 140.00	USD 146.00	USD 162.00	USD 186.00	USD 231.00
100 x 100 mm	USD 146.00	USD 155.00	USD 176.00	USD 206.00	USD 259.00
150 x 150 mm	USD 152.00	USD 164.00	USD 190.00	USD 226.00	USD 287.00
300 x 300 mm	USD 171.00	USD 190.00	USD 232.00	USD 285.00	

**Coil**

**Web Code**

968-408-271  
 051-028-844  
 378-605-218  
 325-650-120  
 878-988-863

**Width 305mm**

**Length 1 Reel**

1 m USD 220.00  
 2 m USD 250.00  
 5 m USD 310.00  
 10 m USD 379.00  
 20 m USD 479.00

**Disks**

**Web Code**

706-272-044  
 284-005-106  
 500-641-408  
 580-175-622  
 521-961-040  
 245-128-801  
 641-105-072

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 272.00	USD 310.00	USD 381.00
6 mm	USD 273.00	USD 311.00	USD 382.00
8 mm	USD 274.00	USD 312.00	USD 384.00
10 mm	USD 275.00	USD 313.00	USD 386.00
15 mm	USD 277.00	USD 316.00	USD 390.00
25 mm	USD 281.00	USD 321.00	USD 399.00
50 mm	USD 291.00	USD 335.00	USD 421.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000558**

Thickness ..... **0.10mm**  
 Temper ..... **Annealed**

Purity ..... **99.5%**

**Size**

**Web Code**

006-445-541  
 191-783-548  
 349-364-658  
 831-271-794

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
50 x 50 mm	USD 159.00	USD 175.00	USD 216.00	USD 279.00	USD 397.00
100 x 100 mm	USD 173.00	USD 195.00	USD 248.00	USD 323.00	USD 459.00
150 x 150 mm	USD 187.00	USD 215.00	USD 279.00	USD 367.00	USD 521.00
300 x 300 mm	USD 229.00	USD 274.00	USD 372.00	USD 499.00	

**Coil**

**Web Code**

948-548-535  
 516-663-637  
 771-481-310  
 568-728-954

**Width 305mm**

**Length 1 Reel**

0.5 m USD 282.00  
 1 m USD 339.00  
 2 m USD 428.00  
 5 m USD 629.00

**Disks**

**Web Code**

975-144-556  
 383-912-066  
 065-027-229  
 803-273-146  
 336-140-529  
 559-080-856  
 052-152-058

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 343.00	USD 444.00	USD 595.00
6 mm	USD 345.00	USD 446.00	USD 599.00
8 mm	USD 346.00	USD 449.00	USD 603.00
10 mm	USD 348.00	USD 451.00	USD 607.00
15 mm	USD 352.00	USD 457.00	USD 617.00
25 mm	USD 361.00	USD 470.00	USD 637.00
50 mm	USD 383.00	USD 501.00	USD 686.00

Typical Analysis : Cu < 500, Fe < 4000, Mn < 500, Si < 3000, Zn < 1000.

**AL000563**

Thickness ..... **0.10mm**  
 Purity ..... **99.0%**

Coil width ..... **610mm**  
 Temper ..... **Annealed**

**Coil**

**Web Code**

264-465-189  
 067-950-741  
 321-593-471  
 773-701-949  
 559-006-383

**Width 610mm**

**Length 1 Reel**

1 m USD 269.00  
 2 m USD 319.00  
 5 m USD 418.00  
 10 m USD 538.00  
 20 m USD 925.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**Metal - Aluminum**

**Aluminum**

**Al**



**Foil**

**AL000560**

Thickness ..... **0.116mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

**Size**

**Web Code**

138-137-367  
 267-165-523  
 395-688-762  
 461-090-663

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 325.00	USD 384.00	USD 504.00	USD 644.00	USD 851.00
50 x 50 mm	USD 460.00	USD 575.00	USD 806.00	USD 1072.00	USD 1456.00
100 x 100 mm	USD 731.00	USD 957.00	USD 1411.00	USD 1926.00	USD 2665.00
150 x 150 mm	USD 1001.00	USD 1340.00	USD 2015.00	USD 2781.00	

**Coil**

**Web Code**

636-328-641  
 541-077-603

**Width 150mm**

Length	1 Reel
	1 m USD 2332.00
2 m USD 3200.00	

**Disks**

**Web Code**

634-708-535  
 338-570-950  
 321-364-092  
 170-500-812  
 312-606-754  
 075-846-773  
 480-847-782

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 410.00	USD 474.00	USD 619.00
6 mm	USD 447.00	USD 527.00	USD 703.00
8 mm	USD 485.00	USD 580.00	USD 787.00
10 mm	USD 523.00	USD 634.00	USD 872.00
15 mm	USD 617.00	USD 767.00	USD 1082.00
25 mm	USD 805.00	USD 1033.00	USD 1503.00
50 mm	USD 1275.00	USD 1699.00	USD 2557.00

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.

Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000581**

Thickness ..... **0.125mm**  
 Temper ..... **Hard**

High Purity ..... **99.999%**

**Size**

**Web Code**

717-415-380  
 676-920-888  
 615-101-269

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 270.00	USD 320.00	USD 426.00	USD 559.00	USD 767.00
50 x 50 mm	USD 373.00	USD 466.00	USD 657.00	USD 885.00	USD 1228.00
100 x 100 mm	USD 579.00	USD 757.00	USD 1119.00	USD 1537.00	USD 2151.00

**Coil**

**Web Code**

887-658-023  
 957-251-650  
 057-391-725

**Width 100mm**

Length	1 Reel
	0.5 m USD 1133.00
1 m USD 1516.00	
2 m USD 2057.00	

**Disks**

**Web Code**

173-969-491  
 746-185-892  
 273-226-242  
 153-278-514  
 159-821-392  
 977-671-529  
 208-938-330

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 409.00	USD 513.00	USD 681.00
6 mm	USD 438.00	USD 554.00	USD 745.00
8 mm	USD 466.00	USD 594.00	USD 810.00
10 mm	USD 495.00	USD 635.00	USD 874.00
15 mm	USD 567.00	USD 737.00	USD 1035.00
25 mm	USD 710.00	USD 940.00	USD 1356.00
50 mm	USD 1070.00	USD 1449.00	

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.

Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000580**

Thickness ..... **0.125mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

**Size**

**Web Code**

853-864-604  
 733-085-950  
 635-737-895  
 467-227-539  
 403-440-385

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 270.00	USD 320.00	USD 426.00	USD 559.00	USD 767.00
50 x 50 mm	USD 373.00	USD 466.00	USD 657.00	USD 885.00	USD 1228.00
100 x 100 mm	USD 579.00	USD 757.00	USD 1119.00	USD 1537.00	
150 x 150 mm	USD 785.00	USD 1049.00	USD 1580.00		
300 x 300 mm	USD 1404.00	USD 1925.00			

**Coil**

**Web Code**

430-038-532  
 754-815-002  
 351-876-446  
 984-556-962

**Width 150mm**

Length	1 Reel
	0.5 m USD 1340.00
1 m USD 1809.00	
1.5 m USD 2168.00	
2 m USD 2472.00	

**Disks**

**Web Code**

069-614-400  
 701-800-282  
 725-032-877  
 629-104-807  
 638-112-120  
 764-013-909  
 501-739-380

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 409.00	USD 513.00	USD 681.00
6 mm	USD 438.00	USD 554.00	USD 745.00
8 mm	USD 466.00	USD 594.00	USD 810.00
10 mm	USD 495.00	USD 635.00	USD 874.00
15 mm	USD 567.00	USD 737.00	USD 1035.00
25 mm	USD 710.00	USD 940.00	USD 1356.00
50 mm	USD 1070.00	USD 1449.00	USD 2161.00

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.

Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**Metal - Aluminum**



**Aluminum**

**Al**



**Foil**

**AL000592**

Thickness ..... **0.125mm**  
 Temper ..... **Hard**

Purity ..... **99.0%**

**Size**

**Web Code**

145-756-971  
 219-617-843  
 452-227-132  
 528-397-602  
 049-702-022

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 113.00	USD 121.00	USD 145.00	USD 169.00	USD 194.00
50 x 50 mm	USD 115.00	USD 125.00	USD 151.00	USD 177.00	USD 206.00
100 x 100 mm	USD 121.00	USD 132.00	USD 163.00	USD 194.00	USD 229.00
150 x 150 mm	USD 126.00	USD 140.00	USD 175.00	USD 210.00	USD 253.00
300 x 300 mm	USD 142.00	USD 162.00	USD 210.00	USD 260.00	USD 323.00

**Coil**

**Web Code**

212-755-242  
 594-412-161  
 301-517-079  
 689-636-646  
 204-578-175

Width **300mm**

Length	Quantity
	1 Reel
1 m	USD 162.00
2 m	USD 189.00
5 m	USD 247.00
10 m	USD 319.00
20 m	USD 493.00

**Disks**

**Web Code**

572-267-102  
 533-388-337  
 673-539-034  
 192-385-196  
 048-146-707  
 018-339-820  
 292-483-756

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 266.00	USD 289.00	USD 356.00
6 mm	USD 267.00	USD 290.00	USD 357.00
8 mm	USD 268.00	USD 291.00	USD 359.00
10 mm	USD 268.00	USD 292.00	USD 360.00
15 mm	USD 270.00	USD 294.00	USD 364.00
25 mm	USD 273.00	USD 299.00	USD 371.00
50 mm	USD 282.00	USD 310.00	USD 390.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000594**

Thickness ..... **0.125mm**  
 Temper ..... **Hard**

Purity ..... **99.0%**

**Size**

**Web Code**

779-003-280  
 378-985-118

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
150 x 150 mm	USD 140.00	USD 160.00	USD 207.00	USD 257.00	USD 318.00
300 x 300 mm	USD 171.00	USD 203.00	USD 275.00	USD 353.00	USD 541.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000591**

Thickness ..... **0.125mm**  
 Temper ..... **Annealed**

Purity ..... **99.0%**

**Size**

**Web Code**

034-023-684  
 252-954-859  
 619-351-387  
 418-914-182  
 364-268-653

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 113.00	USD 121.00	USD 145.00	USD 169.00	USD 194.00
50 x 50 mm	USD 115.00	USD 125.00	USD 151.00	USD 177.00	USD 206.00
100 x 100 mm	USD 121.00	USD 132.00	USD 163.00	USD 194.00	USD 229.00
150 x 150 mm	USD 126.00	USD 140.00	USD 175.00	USD 210.00	USD 253.00
300 x 300 mm	USD 142.00	USD 162.00	USD 210.00	USD 260.00	USD 323.00

**Coil**

**Web Code**

533-577-111  
 697-142-541  
 142-814-779  
 851-842-311  
 480-287-765

Width **300mm**

Length	Quantity
	1 Reel
1 m	USD 162.00
2 m	USD 189.00
5 m	USD 247.00
10 m	USD 319.00
20 m	USD 493.00

**Disks**

**Web Code**

035-966-659  
 495-828-846  
 978-600-993  
 325-122-618  
 640-334-441  
 041-801-371  
 225-166-026

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 266.00	USD 289.00	USD 356.00
6 mm	USD 267.00	USD 290.00	USD 357.00
8 mm	USD 268.00	USD 291.00	USD 359.00
10 mm	USD 268.00	USD 292.00	USD 360.00
15 mm	USD 270.00	USD 294.00	USD 364.00
25 mm	USD 273.00	USD 299.00	USD 371.00
50 mm	USD 282.00	USD 310.00	USD 390.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000596**

Thickness ..... **0.130mm**  
 Temper ..... **Hard**

Purity ..... **99.99%**  
 Condition ..... **Polished both sides**

**Size**

**Web Code**

386-917-480  
 059-734-976  
 524-289-886

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
100 x 119 mm	USD 273.00	USD 327.00	USD 541.00	USD 915.00
100 x 179 mm	USD 299.00	USD 378.00	USD 719.00	USD 1271.00
100 x 358 mm	USD 371.00	USD 591.00		

Typical Analysis : Ca 1, Cu 10, Fe 30, Ga 3, Mg 20, Na 3, Si 20.

PLEASE NOTE: The surface of the material contains blemishes and scratches, and is being offered at a discounted price.

**Metal - Aluminum**

**Aluminum**

**Al**



**Foil**

**AL000601**

Thickness ..... **0.15mm**  
 Temper ..... **Hard**

Purity ..... **99.0%**

**Size**

**Web Code**

828-310-359  
 538-798-885  
 349-858-076  
 732-250-433  
 531-310-475

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 121.00	USD 125.00	USD 135.00	USD 150.00	USD 178.00
50 x 50 mm	USD 124.00	USD 129.00	USD 141.00	USD 158.00	USD 190.00
100 x 100 mm	USD 129.00	USD 136.00	USD 153.00	USD 175.00	USD 214.00
150 x 150 mm	USD 135.00	USD 144.00	USD 165.00	USD 192.00	USD 238.00
300 x 300 mm	USD 151.00	USD 166.00	USD 200.00	USD 243.00	USD 310.00

**Coil**

**Web Code**

413-811-865  
 726-484-010  
 810-511-629  
 313-951-468  
 243-931-800

Width **305mm**

**Quantity**

**Length 1 Reel**

1 m USD 197.00  
 2 m USD 222.00  
 5 m USD 274.00  
 10 m USD 342.00  
 20 m USD 547.00

**Disks**

**Web Code**

491-482-530  
 435-319-611  
 414-951-269  
 868-909-333  
 613-671-827  
 708-978-219  
 622-276-381

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 247.00	USD 273.00	USD 335.00
6 mm	USD 248.00	USD 274.00	USD 337.00
8 mm	USD 248.00	USD 275.00	USD 338.00
10 mm	USD 249.00	USD 276.00	USD 340.00
15 mm	USD 251.00	USD 278.00	USD 344.00
25 mm	USD 254.00	USD 283.00	USD 351.00
50 mm	USD 263.00	USD 295.00	USD 370.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000603**

Thickness ..... **0.16mm**  
 Temper ..... **As rolled**

Purity ..... **99.999%**

**Disks**

**Web Code**

358-013-553  
 679-774-663

Diameter	Quantity			
	1 disks	2 disks	5 disks	10 disks
7 mm	USD 290.00	USD 311.00	USD 360.00	USD 426.00
19 mm	USD 346.00			

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.

Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C. Very limited stock available.

**AL000614**

Thickness ..... **0.20mm**  
 Temper ..... **Hard**

Purity ..... **99.0%**

**Size**

**Web Code**

046-142-527  
 625-805-515  
 401-623-848  
 818-794-305  
 025-051-587

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 121.00	USD 124.00	USD 133.00	USD 146.00	USD 171.00
50 x 50 mm	USD 124.00	USD 129.00	USD 140.00	USD 156.00	USD 185.00
100 x 100 mm	USD 130.00	USD 138.00	USD 154.00	USD 176.00	USD 212.00
150 x 150 mm	USD 137.00	USD 146.00	USD 168.00	USD 195.00	USD 240.00
200 x 300 mm	USD 148.00	USD 163.00	USD 194.00	USD 232.00	USD 292.00

**Disks**

**Web Code**

783-347-571  
 389-040-375  
 170-211-910  
 918-662-796  
 576-887-679  
 642-488-794  
 224-788-903

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 242.00	USD 264.00	USD 310.00
6 mm	USD 243.00	USD 265.00	USD 312.00
8 mm	USD 244.00	USD 266.00	USD 314.00
10 mm	USD 245.00	USD 267.00	USD 315.00
15 mm	USD 247.00	USD 270.00	USD 320.00
25 mm	USD 251.00	USD 275.00	USD 329.00
50 mm	USD 260.00	USD 289.00	USD 351.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**Metal - Aluminum**

**Aluminum**

**Al**



**Foil**

**AL000611**

Thickness ..... **0.20mm**  
 Temper ..... **Hard**

Purity ..... **99.0%**

**Size**

**Web Code**

444-342-569  
 542-820-011  
 852-503-920  
 562-989-104  
 373-645-974

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 121.00	USD 124.00	USD 133.00	USD 146.00	USD 171.00
50 x 50 mm	USD 124.00	USD 129.00	USD 140.00	USD 156.00	USD 185.00
100 x 100 mm	USD 130.00	USD 138.00	USD 154.00	USD 176.00	USD 212.00
150 x 150 mm	USD 137.00	USD 146.00	USD 168.00	USD 195.00	USD 240.00
300 x 300 mm	USD 155.00	USD 173.00	USD 209.00	USD 254.00	USD 323.00

**Coil**

**Web Code**

705-747-008  
 218-380-466  
 297-553-120  
 194-143-242  
 267-909-034

Length	Quantity	
	1 Reel	
1 m	USD 206.00	
2 m	USD 235.00	
5 m	USD 294.00	
10 m	USD 406.00	
20 m	USD 676.00	

**Disks**

**Web Code**

488-627-270  
 078-407-062  
 800-879-915  
 109-997-385  
 749-672-388  
 709-040-441  
 630-054-752

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 242.00	USD 264.00	USD 310.00
6 mm	USD 243.00	USD 265.00	USD 312.00
8 mm	USD 244.00	USD 266.00	USD 314.00
10 mm	USD 245.00	USD 267.00	USD 315.00
15 mm	USD 247.00	USD 270.00	USD 320.00
25 mm	USD 251.00	USD 275.00	USD 329.00
50 mm	USD 260.00	USD 289.00	USD 351.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000612**

Thickness ..... **0.20mm**  
 Temper ..... **Annealed**

Purity ..... **99.0%**

**Size**

**Web Code**

033-093-203  
 967-509-956  
 031-276-652  
 663-603-484  
 037-788-473

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 121.00	USD 124.00	USD 133.00	USD 146.00	USD 171.00
50 x 50 mm	USD 124.00	USD 129.00	USD 140.00	USD 156.00	USD 185.00
100 x 100 mm	USD 130.00	USD 138.00	USD 154.00	USD 176.00	USD 212.00
150 x 150 mm	USD 137.00	USD 146.00	USD 168.00	USD 195.00	USD 240.00
300 x 300 mm	USD 155.00	USD 173.00	USD 209.00	USD 254.00	USD 323.00

**Coil**

**Web Code**

455-251-462  
 732-706-724  
 190-061-307  
 314-590-246  
 471-178-867

Length	Quantity	
	1 Reel	
1 m	USD 206.00	
2 m	USD 235.00	
5 m	USD 294.00	
10 m	USD 406.00	
20 m	USD 676.00	

**Disks**

**Web Code**

900-943-947  
 704-798-949  
 899-136-394  
 622-154-552  
 717-200-180  
 238-501-652  
 394-532-516

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 242.00	USD 264.00	USD 310.00
6 mm	USD 243.00	USD 265.00	USD 312.00
8 mm	USD 244.00	USD 266.00	USD 314.00
10 mm	USD 245.00	USD 267.00	USD 315.00
15 mm	USD 247.00	USD 270.00	USD 320.00
25 mm	USD 251.00	USD 275.00	USD 329.00
50 mm	USD 260.00	USD 289.00	USD 351.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000628**

Thickness ..... **0.20mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

**Size**

**Web Code**

703-655-282  
 441-682-165  
 471-323-228  
 628-361-403  
 415-274-585

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 172.00	USD 196.00	USD 253.00	USD 328.00	USD 420.00
50 x 50 mm	USD 214.00	USD 256.00	USD 346.00	USD 460.00	USD 607.00
100 x 100 mm	USD 297.00	USD 374.00	USD 533.00	USD 725.00	
150 x 150 mm	USD 381.00	USD 492.00	USD 733.00		
300 x 300 mm	USD 632.00	USD 1056.00			

**Coil**

**Web Code**

861-318-856

Length	Quantity	
	1 Reel	
0.5 m	USD 974.00	

**Disks**

**Web Code**

814-524-932  
 401-821-409  
 816-770-438  
 159-653-107  
 400-740-167  
 740-035-105  
 837-059-138

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 321.00	USD 367.00	USD 494.00
6 mm	USD 332.00	USD 382.00	USD 518.00
8 mm	USD 343.00	USD 397.00	USD 542.00
10 mm	USD 353.00	USD 412.00	USD 566.00
15 mm	USD 380.00	USD 449.00	USD 625.00
25 mm	USD 433.00	USD 525.00	USD 744.00
50 mm	USD 566.00	USD 714.00	

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.

Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**Aluminum**

**Al**



**Foil**

**AL000613**

Thickness ..... **0.20mm**  
 Purity ..... **99.0%**

Coil width ..... **600mm**  
 Temper ..... **Hard**

**Coil**

**Web Code**  
 184-457-093  
 182-694-779  
 520-566-043  
 921-766-789  
 945-854-167

**Width 600mm**

Length	1 Reel
0.5 m	USD 230.00
1 m	USD 260.00
2 m	USD 303.00
5 m	USD 434.00
10 m	USD 709.00

**Quantity**

Typical Analysis : Cu <1000, Fe <7000, Mn <1000, Si <5000, Zn <1000.

**AL000609**

Thickness ..... **0.20mm**  
 Temper ..... **Annealed**

Purity ..... **99.0%**

**Size**

**Web Code**  
 944-335-537  
 064-090-982  
 610-988-463  
 450-400-149  
 216-686-095

**Width 600mm**

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 122.00	USD 125.00	USD 134.00	USD 148.00	USD 173.00
50 x 50 mm	USD 125.00	USD 130.00	USD 143.00	USD 160.00	USD 190.00
100 x 100 mm	USD 133.00	USD 141.00	USD 159.00	USD 183.00	USD 222.00
150 x 150 mm	USD 140.00	USD 151.00	USD 175.00	USD 206.00	USD 255.00
300 x 300 mm	USD 162.00	USD 182.00	USD 224.00	USD 275.00	USD 371.00

**Coil**

**Web Code**  
 371-626-940  
 313-725-129  
 686-198-198  
 370-476-072  
 520-178-033

**Width 610mm**

Length	1 Reel
1 m	USD 252.00
2 m	USD 300.00
5 m	USD 505.00
10 m	USD 873.00
20 m	USD 1609.00

**Disks**

**Web Code**  
 961-960-016  
 962-497-182  
 633-243-238  
 629-307-070  
 899-810-720  
 210-858-594  
 812-583-076

**Width 610mm**

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 243.00	USD 264.00	USD 311.00
6 mm	USD 244.00	USD 265.00	USD 313.00
8 mm	USD 244.00	USD 267.00	USD 315.00
10 mm	USD 245.00	USD 268.00	USD 317.00
15 mm	USD 248.00	USD 271.00	USD 322.00
25 mm	USD 252.00	USD 278.00	USD 333.00
50 mm	USD 264.00	USD 294.00	USD 359.00

Typical Analysis : Cu <1000, Fe <7000, Mn <1000, Si <5000, Zn <1000.

**AL000630**

Thickness ..... **0.25mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

**Size**

**Web Code**  
 755-171-280  
 396-401-145  
 550-139-926  
 767-494-745  
 617-213-557

**Width 600mm**

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 174.00	USD 199.00	USD 257.00	USD 334.00	USD 428.00
50 x 50 mm	USD 217.00	USD 261.00	USD 355.00	USD 473.00	USD 624.00
100 x 100 mm	USD 305.00	USD 385.00	USD 551.00	USD 754.00	
150 x 150 mm	USD 392.00	USD 509.00	USD 787.00		
300 x 300 mm	USD 655.00	USD 1142.00			

**Coil**

**Web Code**  
 104-784-591

**Width 300mm**

Length	1 Reel
0.5 m	USD 1033.00

**Disks**

**Web Code**  
 412-882-726  
 610-344-423  
 293-057-069  
 632-131-175  
 016-392-901  
 049-118-038  
 139-754-549

**Width 300mm**

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 322.00	USD 368.00	USD 496.00
6 mm	USD 333.00	USD 384.00	USD 521.00
8 mm	USD 345.00	USD 400.00	USD 546.00
10 mm	USD 356.00	USD 415.00	USD 571.00
15 mm	USD 383.00	USD 455.00	USD 633.00
25 mm	USD 439.00	USD 533.00	USD 758.00
50 mm	USD 579.00	USD 731.00	

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.

Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**Aluminum**

**Al**



**Foil**

**AL000621**

Thickness ..... **0.25mm**  
 Temper ..... **Hard**

Purity ..... **99.0%**

**Size**

**Web Code**

869-431-566  
 678-938-900  
 867-362-913  
 420-373-981  
 546-748-267

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm			USD 139.00	USD 161.00	USD 180.00
50 x 50 mm	USD 109.00	USD 119.00	USD 147.00	USD 172.00	USD 196.00
100 x 100 mm	USD 116.00	USD 129.00	USD 162.00	USD 194.00	USD 227.00
150 x 150 mm	USD 123.00	USD 139.00	USD 178.00	USD 216.00	USD 258.00
300 x 300 mm	USD 144.00	USD 168.00	USD 224.00	USD 281.00	USD 357.00

**Coil**

**Web Code**

343-526-924  
 940-864-892  
 608-101-069  
 012-632-155  
 579-016-202

Width **305mm**

Length	Quantity	
	1 Reel	
1 m	USD 193.00	
2 m	USD 225.00	
5 m	USD 291.00	
10 m	USD 450.00	
20 m	USD 785.00	

**Disks**

**Web Code**

377-032-357  
 129-044-222  
 130-534-844  
 316-858-906  
 607-371-154  
 921-392-399  
 174-041-300

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 256.00	USD 272.00	USD 317.00
6 mm	USD 257.00	USD 273.00	USD 319.00
8 mm	USD 258.00	USD 274.00	USD 321.00
10 mm	USD 259.00	USD 276.00	USD 323.00
15 mm	USD 261.00	USD 279.00	USD 328.00
25 mm	USD 266.00	USD 285.00	USD 338.00
50 mm	USD 277.00	USD 300.00	USD 362.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000622**

Thickness ..... **0.25mm**  
 Temper ..... **Annealed**

Purity ..... **99.0%**

**Size**

**Web Code**

942-583-454  
 211-171-695  
 977-903-837  
 881-821-311  
 913-471-500

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm			USD 139.00	USD 161.00	USD 180.00
50 x 50 mm	USD 109.00	USD 119.00	USD 147.00	USD 172.00	USD 196.00
100 x 100 mm	USD 116.00	USD 129.00	USD 162.00	USD 194.00	USD 227.00
150 x 150 mm	USD 123.00	USD 139.00	USD 178.00	USD 216.00	USD 258.00
300 x 300 mm	USD 144.00	USD 168.00	USD 224.00	USD 281.00	USD 357.00

**Coil**

**Web Code**

458-893-964  
 338-096-093  
 290-240-186  
 047-655-293  
 283-625-626

Width **305mm**

Length	Quantity	
	1 Reel	
1 m	USD 193.00	
2 m	USD 225.00	
5 m	USD 291.00	
10 m	USD 450.00	
20 m	USD 785.00	

**Disks**

**Web Code**

913-900-794  
 516-157-729  
 744-010-517  
 407-080-876  
 505-819-085  
 635-322-902  
 102-260-672

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 256.00	USD 272.00	USD 317.00
6 mm	USD 257.00	USD 273.00	USD 319.00
8 mm	USD 258.00	USD 274.00	USD 321.00
10 mm	USD 259.00	USD 276.00	USD 323.00
15 mm	USD 261.00	USD 279.00	USD 328.00
25 mm	USD 266.00	USD 285.00	USD 338.00
50 mm	USD 277.00	USD 300.00	USD 362.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000636**

Thickness ..... **0.3mm**  
 Temper ..... **Hard**

Purity ..... **99.0%**

**Size**

**Web Code**

052-866-525  
 042-048-978  
 289-124-287  
 834-161-698  
 899-171-165

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 122.00	USD 126.00	USD 135.00	USD 149.00	USD 174.00
50 x 50 mm	USD 126.00	USD 131.00	USD 144.00	USD 161.00	USD 192.00
100 x 100 mm	USD 134.00	USD 142.00	USD 161.00	USD 186.00	USD 227.00
150 x 150 mm	USD 141.00	USD 153.00	USD 179.00	USD 211.00	USD 262.00
200 x 300 mm	USD 156.00	USD 174.00	USD 212.00	USD 257.00	USD 328.00

**Disks**

**Web Code**

650-512-212  
 978-121-755  
 924-255-416  
 318-300-502  
 285-832-648  
 711-315-756  
 864-526-782

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 243.00	USD 264.00	USD 311.00
6 mm	USD 244.00	USD 266.00	USD 313.00
8 mm	USD 245.00	USD 267.00	USD 316.00
10 mm	USD 246.00	USD 268.00	USD 318.00
15 mm	USD 248.00	USD 272.00	USD 323.00
25 mm	USD 253.00	USD 279.00	USD 334.00
50 mm	USD 266.00	USD 296.00	USD 362.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**Metal - Aluminum**

**Aluminum**

**Al**



**Foil**

**AL000635**

Thickness ..... **0.3mm**  
 Temper ..... **Half hard**

Purity ..... **99.0%**

**Size**

**Web Code**

469-314-637  
 664-329-885  
 041-225-935  
 153-238-134  
 154-769-807

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 122.00	USD 126.00	USD 135.00	USD 149.00	USD 174.00
50 x 50 mm	USD 126.00	USD 131.00	USD 144.00	USD 161.00	USD 192.00
100 x 100 mm	USD 134.00	USD 142.00	USD 161.00	USD 186.00	USD 227.00
150 x 150 mm	USD 141.00	USD 153.00	USD 179.00	USD 211.00	USD 262.00
300 x 300 mm	USD 165.00	USD 186.00	USD 231.00	USD 285.00	USD 402.00

**Coil**

**Web Code**

639-584-838  
 346-234-808  
 279-359-507  
 919-943-277  
 251-570-998

Length	Quantity	
	1 Reel	
0.5 m	USD 198.00	
1 m	USD 224.00	
2 m	USD 260.00	
5 m	USD 349.00	
10 m	USD 561.00	

**Disks**

**Web Code**

992-902-899  
 112-859-402  
 107-434-216  
 429-282-416  
 660-311-852  
 538-982-387  
 372-790-860

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 243.00	USD 264.00	USD 311.00
6 mm	USD 244.00	USD 266.00	USD 313.00
8 mm	USD 245.00	USD 267.00	USD 316.00
10 mm	USD 246.00	USD 268.00	USD 318.00
15 mm	USD 248.00	USD 272.00	USD 323.00
25 mm	USD 253.00	USD 279.00	USD 334.00
50 mm	USD 266.00	USD 296.00	USD 362.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000637**

Thickness ..... **0.32mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

**Size**

**Web Code**

598-861-078  
 857-628-390  
 203-545-325  
 443-163-457  
 049-951-644

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 177.00	USD 204.00	USD 262.00	USD 324.00
50 x 50 mm	USD 227.00	USD 273.00	USD 371.00	USD 479.00
100 x 100 mm	USD 325.00	USD 412.00	USD 591.00	
150 x 150 mm	USD 423.00	USD 551.00		
300 x 300 mm	USD 786.00			

**Coil**

**Web Code**

395-432-624  
 429-082-943

Length	Quantity	
	1 Reel	
0.5 m	USD 689.00	
1 m	USD 1255.00	

**Disks**

**Web Code**

420-914-773  
 614-339-844  
 792-484-374  
 060-538-572  
 567-315-306  
 914-423-923  
 302-994-075

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 298.00	USD 327.00	USD 403.00
6 mm	USD 311.00	USD 345.00	USD 431.00
8 mm	USD 323.00	USD 362.00	USD 459.00
10 mm	USD 336.00	USD 380.00	USD 487.00
15 mm	USD 367.00	USD 424.00	USD 557.00
25 mm	USD 429.00	USD 513.00	USD 698.00
50 mm	USD 587.00	USD 737.00	

Typical Analysis :  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000638**

Thickness ..... **0.38mm**  
 Temper ..... **Half hard**

Purity ..... **99.0%**

**Size**

**Web Code**

528-270-608  
 826-080-046  
 198-991-858  
 371-545-832  
 676-944-401

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 122.00	USD 126.00	USD 136.00	USD 150.00	USD 177.00
50 x 50 mm	USD 127.00	USD 132.00	USD 146.00	USD 164.00	USD 196.00
100 x 100 mm	USD 136.00	USD 145.00	USD 166.00	USD 192.00	USD 236.00
150 x 150 mm	USD 144.00	USD 157.00	USD 185.00	USD 220.00	USD 275.00
300 x 300 mm	USD 171.00	USD 195.00	USD 244.00	USD 303.00	USD 467.00

**Coil**

**Web Code**

378-076-781  
 273-182-924  
 651-751-500  
 723-530-998  
 054-178-619

Length	Quantity	
	1 Reel	
0.5 m	USD 206.00	
1 m	USD 235.00	
2 m	USD 276.00	
5 m	USD 404.00	
10 m	USD 672.00	

**Disks**

**Web Code**

647-169-258  
 452-587-565  
 516-882-110  
 546-171-594  
 336-577-124  
 436-810-469  
 380-874-334

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 243.00	USD 264.00	USD 312.00
6 mm	USD 244.00	USD 266.00	USD 314.00
8 mm	USD 245.00	USD 268.00	USD 317.00
10 mm	USD 246.00	USD 269.00	USD 319.00
15 mm	USD 249.00	USD 273.00	USD 325.00
25 mm	USD 255.00	USD 281.00	USD 338.00
50 mm	USD 269.00	USD 301.00	USD 369.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000

**Metal - Aluminum**

**Aluminum**

**Al**



**Foil**

**AL000648**

Thickness ..... **0.5mm**  
 Temper ..... **Half hard**

Purity ..... **99.0%**

**Disks**

**Web Code**  
 012-074-159

Diameter	Quantity			
	10 disks	20 disks	50 disks	100 disks
33 mm	USD 250.00	USD 278.00	USD 341.00	USD 438.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000647**

Thickness ..... **0.5mm**  
 Temper ..... **Half hard**

Purity ..... **99.0%**  
 Condition ..... **Polished on both sides**

**Size**

**Web Code**  
 099-013-469  
 554-037-150

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
50 x 50 mm	USD 151.00	USD 170.00	USD 211.00	USD 260.00	USD 341.00
100 x 100 mm	USD 193.00	USD 230.00	USD 309.00		

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000651**

Thickness ..... **0.50mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**  
 Condition ..... **Polished on both sides**

**Size**

**Web Code**  
 122-440-704  
 929-002-022  
 889-358-121

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 237.00	USD 274.00	USD 356.00	USD 448.00
50 x 50 mm	USD 306.00	USD 371.00	USD 509.00	
100 x 100 mm	USD 442.00	USD 564.00		

**Disks**

**Web Code**  
 535-696-939

Diameter	Quantity					
	1 disks	2 disks	3 disks	5 disks	10 disks	20 disks
22 mm	USD 334.00	USD 367.00	USD 395.00	USD 443.00	USD 528.00	USD 645.00

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.  
 Very limited stock available.

**AL000650**

Thickness ..... **0.50mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

**Size**

**Web Code**  
 177-971-350  
 246-417-715  
 802-216-433  
 277-054-279  
 431-346-903

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 182.00	USD 210.00	USD 272.00	USD 338.00
50 x 50 mm	USD 235.00	USD 286.00	USD 391.00	USD 508.00
100 x 100 mm	USD 343.00	USD 437.00	USD 631.00	
150 x 150 mm	USD 450.00	USD 589.00		
300 x 300 mm	USD 854.00			

**Disks**

**Web Code**  
 644-262-596  
 532-824-377  
 603-041-608  
 380-212-063  
 526-502-998  
 812-863-081  
 607-876-823

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 301.00	USD 330.00	USD 408.00
6 mm	USD 314.00	USD 349.00	USD 438.00
8 mm	USD 328.00	USD 369.00	USD 469.00
10 mm	USD 341.00	USD 388.00	USD 500.00
15 mm	USD 375.00	USD 436.00	USD 576.00
25 mm	USD 444.00	USD 533.00	USD 730.00
50 mm	USD 616.00	USD 778.00	

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000645**

Thickness ..... **0.5mm**  
 Temper ..... **Half hard**

Purity ..... **99.0%**

**Size**

**Web Code**  
 678-345-583  
 793-199-972  
 149-990-130  
 748-772-832

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 x 100 mm	USD 126.00	USD 135.00	USD 155.00	USD 181.00	USD 224.00
150 x 150 mm	USD 134.00	USD 147.00	USD 174.00	USD 208.00	
300 x 300 mm	USD 160.00	USD 183.00	USD 231.00		
500 x 500 mm	USD 193.00	USD 231.00			

**Disks**

**Web Code**  
 596-611-199  
 576-398-753  
 049-847-575  
 230-949-639  
 868-701-557  
 587-699-152  
 462-388-122

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 234.00	USD 256.00	USD 306.00
6 mm	USD 235.00	USD 258.00	USD 308.00
8 mm	USD 236.00	USD 259.00	USD 311.00
10 mm	USD 237.00	USD 261.00	USD 313.00
15 mm	USD 240.00	USD 264.00	USD 319.00
25 mm	USD 246.00	USD 272.00	USD 331.00
50 mm	USD 259.00	USD 291.00	USD 361.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

Metal - Aluminum

**Aluminum**

**Al**



**Foil**

**AL000680**

Thickness ..... **0.80mm**  
 Temper ..... **Half hard**

Purity ..... **99.0%**

**Size**

**Web Code**

835-853-804  
 305-936-843  
 188-301-560  
 373-716-743  
 047-509-272

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 116.00	USD 122.00	USD 134.00	USD 151.00	USD 182.00
50 x 50 mm	USD 124.00	USD 132.00	USD 151.00	USD 175.00	USD 215.00
100 x 100 mm	USD 139.00	USD 153.00	USD 184.00	USD 222.00	USD 282.00
150 x 150 mm	USD 154.00	USD 174.00	USD 217.00	USD 269.00	
300 x 300 mm	USD 198.00	USD 237.00	USD 340.00		

**Disks**

**Web Code**

975-882-326  
 527-206-137  
 454-812-602  
 885-282-697  
 711-823-796  
 483-856-268  
 313-460-524

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 236.00	USD 258.00	USD 306.00
6 mm	USD 238.00	USD 261.00	USD 311.00
8 mm	USD 240.00	USD 264.00	USD 315.00
10 mm	USD 242.00	USD 266.00	USD 319.00
15 mm	USD 246.00	USD 273.00	USD 330.00
25 mm	USD 256.00	USD 286.00	USD 351.00
50 mm	USD 279.00	USD 320.00	USD 404.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000701**

Thickness ..... **1.0mm**  
 Temper ..... **Half hard**

Purity ..... **99.0%**

**Disks**

**Web Code**

819-333-412

Diameter	Quantity			
	10 disks	20 disks	50 disks	100 disks
33 mm	USD 260.00	USD 291.00	USD 356.00	USD 453.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000690**

Thickness ..... **1.0mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

**Size**

**Web Code**

984-603-005  
 075-381-155  
 422-643-896  
 830-481-157  
 763-279-598

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 191.00	USD 223.00	USD 295.00	USD 377.00
50 x 50 mm	USD 251.00	USD 309.00	USD 431.00	USD 569.00
100 x 100 mm	USD 373.00	USD 481.00	USD 702.00	
150 x 150 mm	USD 494.00	USD 653.00		
300 x 300 mm	USD 1037.00			

**Disks**

**Web Code**

203-035-361  
 379-416-336  
 427-037-699  
 379-708-155  
 463-515-710  
 939-462-923  
 432-863-406

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 320.00	USD 369.00	USD 505.00
6 mm	USD 335.00	USD 391.00	USD 539.00
8 mm	USD 351.00	USD 413.00	USD 574.00
10 mm	USD 366.00	USD 435.00	USD 610.00
15 mm	USD 405.00	USD 490.00	USD 696.00
25 mm	USD 482.00	USD 600.00	USD 871.00
50 mm	USD 678.00	USD 879.00	

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.

Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000700**

Thickness ..... **1.0mm**  
 Temper ..... **Half hard**

Purity ..... **99.0%**

**Size**

**Web Code**

591-379-046  
 922-386-885  
 298-361-767  
 295-217-845  
 902-229-593

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 114.00	USD 118.00	USD 128.00	USD 143.00	USD 170.00
50 x 50 mm	USD 118.00	USD 125.00	USD 139.00	USD 158.00	USD 191.00
100 x 100 mm	USD 128.00	USD 138.00	USD 160.00	USD 188.00	USD 234.00
150 x 150 mm	USD 138.00	USD 152.00	USD 181.00	USD 218.00	USD 277.00
300 x 300 mm	USD 166.00	USD 192.00	USD 246.00	USD 311.00	USD 516.00

**Disks**

**Web Code**

778-694-898  
 336-861-851  
 107-726-030  
 465-760-539  
 220-066-623  
 508-330-092  
 541-255-795

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 234.00	USD 256.00	USD 303.00
6 mm	USD 236.00	USD 258.00	USD 306.00
8 mm	USD 237.00	USD 260.00	USD 309.00
10 mm	USD 238.00	USD 261.00	USD 311.00
15 mm	USD 241.00	USD 266.00	USD 318.00
25 mm	USD 247.00	USD 274.00	USD 332.00
50 mm	USD 262.00	USD 296.00	USD 366.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**Metal - Aluminum**



**Aluminum**

**Al**



**Foil**

**AL000720**

Thickness ..... **1.5mm** High Purity ..... **99.999%**  
 Temper ..... **As rolled**

Size Web Code	Size	Quantity			
		1pc	2pcs	5pcs	10pcs
656-970-818	25 x 25 mm	USD 219.00	USD 264.00	USD 359.00	USD 468.00
121-362-498	50 x 50 mm	USD 309.00	USD 390.00	USD 560.00	USD 751.00
170-304-166	100 x 100 mm	USD 488.00	USD 644.00	USD 960.00	
288-019-867	150 x 150 mm	USD 667.00	USD 897.00		
002-482-629	300 x 300 mm	POA			

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000730**

Thickness ..... **1.5mm** Purity ..... **99.0%**  
 Temper ..... **Half hard**

Size Web Code	Size	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
973-735-265	25 x 25 mm	USD 114.00	USD 119.00	USD 130.00	USD 145.00	USD 173.00
697-185-177	50 x 50 mm	USD 120.00	USD 127.00	USD 142.00	USD 162.00	USD 198.00
087-840-635	100 x 100 mm	USD 131.00	USD 142.00	USD 166.00	USD 197.00	USD 247.00
724-459-670	150 x 150 mm	USD 142.00	USD 158.00	USD 191.00	USD 232.00	USD 296.00
919-547-837	300 x 300 mm	USD 175.00	USD 204.00	USD 265.00	USD 370.00	

Web Code	Diameter	Quantity		
		10 disks	20 disks	50 disks
471-432-568	4 mm	USD 235.00	USD 257.00	USD 304.00
845-968-770	6 mm	USD 236.00	USD 259.00	USD 307.00
572-697-952	8 mm	USD 238.00	USD 261.00	USD 310.00
614-880-630	10 mm	USD 239.00	USD 263.00	USD 313.00
114-474-898	15 mm	USD 242.00	USD 268.00	USD 321.00
579-523-890	25 mm	USD 249.00	USD 278.00	USD 337.00
907-130-008	50 mm	USD 267.00	USD 302.00	USD 376.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000731**

Thickness ..... **1.5mm** Purity ..... **99.0%**  
 Temper ..... **Half hard** Condition ..... **Polished on both sides**

Size Web Code	Size	Quantity			
		1pc	2pcs	5pcs	10pcs
455-707-087	50 x 50 mm	USD 196.00	USD 220.00	USD 276.00	USD 351.00
824-072-589	100 x 100 mm	USD 237.00	USD 278.00	USD 367.00	
844-014-230	200 x 200 mm	USD 318.00	USD 393.00		

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000760**

Thickness ..... **2.0mm** High Purity ..... **99.999%**  
 Temper ..... **As rolled**

Size Web Code	Size	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
078-596-278	25 x 25 mm	USD 234.00	USD 285.00	USD 393.00	USD 515.00	USD 688.00
824-528-101	50 x 50 mm	USD 339.00	USD 432.00	USD 626.00	USD 845.00	
066-014-854	100 x 100 mm	USD 547.00	USD 728.00	POA		
251-859-775	150 x 150 mm	USD 756.00	USD 1026.00			
482-469-253	300 x 300 mm	POA				

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000761**

Thickness ..... **2.0mm** High Purity ..... **99.999%**  
 Temper ..... **As rolled** Condition ..... **Polished on both sides**

Size Web Code	Size	Quantity		
		1pc	2pcs	5pcs
713-727-294	100 x 100 mm	USD 693.00	USD 934.00	USD 1494.00

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000750**

Thickness ..... **2.0mm** Purity ..... **99.0%**  
 Temper ..... **Half hard**

Size Web Code	Size	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
408-079-863	25 x 25 mm	USD 114.00	USD 118.00	USD 129.00	USD 144.00	USD 172.00
009-976-788	50 x 50 mm	USD 120.00	USD 126.00	USD 141.00	USD 162.00	USD 197.00
247-092-939	100 x 100 mm	USD 131.00	USD 142.00	USD 166.00	USD 197.00	USD 247.00
886-616-617	150 x 150 mm	USD 142.00	USD 158.00	USD 191.00	USD 232.00	USD 296.00
827-075-106	300 x 300 mm	USD 175.00	USD 205.00	USD 266.00	USD 374.00	

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**Metal - Aluminum**

**Aluminum**

**Al**



**Foil**

**AL000770**

Thickness ..... **3.0mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

Size	Quantity
<b>Web Code</b> 125-596-084	<b>Size</b> 150 x 150 mm
206-659-191	300 x 300 mm
	<b>1pc</b> POA
	POA

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000765**

Thickness ..... **3.0mm**  
 Temper ..... **Half hard**

Purity ..... **99.0%**

Size	Quantity
<b>Web Code</b> 216-937-532	<b>1pc</b>
848-610-293	150 x 150 mm
853-418-653	300 x 300 mm
410-642-297	500 x 500 mm
	1000 x 1000 mm
	USD 149.00
	USD 168.00
	USD 190.00
	USD 226.00
	USD 244.00
	USD 316.00
	USD 520.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000775**

Thickness ..... **4.0mm**  
 Temper ..... **Half hard**

Purity ..... **99.0%**

Size	Quantity
<b>Web Code</b> 005-449-571	<b>1pc</b>
	300 x 300 mm
	USD 260.00
	<b>2pcs</b>
	USD 366.00
	<b>3pcs</b>
	USD 495.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.  
 Very limited stock available.

**AL000782**

Thickness ..... **5.0mm**  
 Temper ..... **Half hard**

Purity ..... **99.0%**

Size	Quantity
<b>Web Code</b> 958-158-513	<b>1pc</b>
998-385-460	100 x 100 mm
	300 x 300 mm
	USD 202.00
	POA
	<b>2pcs</b>
	USD 262.00
	<b>5pcs</b>
	POA

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000780**

Thickness ..... **5.0mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

Size	Quantity
<b>Web Code</b> 585-770-243	<b>1pc</b>
699-503-917	102 x 102 mm
437-991-811	150 x 150 mm
	300 x 300 mm
	POA
	POA

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000786**

Thickness ..... **6.0mm**  
 Temper ..... **Half hard**

Purity ..... **99.0%**

Size	Quantity
<b>Web Code</b> 993-791-867	<b>1pc</b>
043-944-159	100 x 100 mm
	200 x 200 mm
	USD 210.00
	USD 285.00
	USD 403.00

Typical Analysis : Cu < 1000, Fe < 7000, Mn < 1000, Si < 5000, Zn < 1000.

**AL000785**

Thickness ..... **6.0mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

Size	Quantity
<b>Web Code</b> 398-998-391	<b>1pc</b>
022-125-802	100 x 100 mm
286-389-735	150 x 150 mm
	300 x 300 mm
	POA
	POA

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000789**

Thickness ..... **9.0mm**

High Purity ..... **99.999%**

Size	Quantity
<b>Web Code</b> 355-105-870	<b>1pc</b>
	127 x 444 mm
	POA

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

Metal – Aluminum

**Aluminum**

**Al**



**Foil**

**AL000790**

Thickness ..... **10.0mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

<b>Size</b>	<b>Quantity</b>
<b>Web Code</b>	<b>Size</b>
062-764-389	150 x 150 mm
845-549-835	300 x 300 mm
	<b>Quantity</b>
	<b>1pc</b>
	POA
	POA

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000792**

Thickness ..... **12.0mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

<b>Size</b>	<b>Quantity</b>
<b>Web Code</b>	<b>Size</b>
554-691-669	146 x 464 mm
	<b>Quantity</b>
	<b>1pc</b>
	POA

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000795**

Thickness ..... **15.0mm**  
 Temper ..... **As rolled**

High Purity ..... **99.999%**

<b>Size</b>	<b>Quantity</b>
<b>Web Code</b>	<b>Size</b>
885-099-542	200 x 200 mm
	<b>Quantity</b>
	<b>1pc</b>
	POA

Typical Analysis : Cu 0.3, Fe 0.3, Mg 1.2, Si 0.8.  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**AL000798**

Thickness ..... **25.0mm**  
 Temper ..... **As rolled**

Purity ..... **99.99%**

<b>Size</b>	<b>Quantity</b>
<b>Web Code</b>	<b>Size</b>
270-752-696	200 x 200 mm
	<b>Quantity</b>
	<b>1pc</b>
	POA

Typical Analysis : Ca 1, Cu 10, Fe 30, Ga 3, Mg 20, Na 3, Si 20.  
 Remove possible surface impurities by immersion in aqueous HF 1% / HNO<sub>3</sub> 10% / HCl 20% by volume, 1-3 minutes at 60C.

**Metal – Aluminum**



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