

# 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 Catalogue 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 Catalogue at [www.goodfellow.com](http://www.goodfellow.com).

### Materials

#### ***Metals and Alloys***

Goodfellow supplies virtually all of the pure metals from Aluminium 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 Catalogue 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 Fibre**

Fibres cut into short lengths called cut, staple or chopped fibre.

**Tolerances**

Fibre 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%



**Fibre**

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**

Fibre 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%

**Product Descriptions**



**Metallised 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:  $\pm 10\%$   
 Size (linear dimension): < 100mm  $\pm 1\text{mm}$   
 $\geq 100\text{mm}$   $+2\% / -1\%$



**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 fibres 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. conventional textile fabrics. Due to the open and porous nature of this material, all other dimensions are nominal.

**Tolerances**

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



**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

**Product Descriptions**



**Rod**

A straight length of circular section material.

**Tolerances**

Diameter:	≤ 10mm	± 10%
	Polymer	+ 20%/-10%
	Ceramic	+ 20%/-10%
> 10mm	± 5%	
	Ceramic	+ 20%/-10%
	Polymer	+ 20%/-10%
Length:	< 100mm	± 1mm
	≥ 100mm	+ 5% / -1%



**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 vapourisation 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%
> 5mm	± 5%	
	Polymer	± 10%
	Ceramic	± 10%
Wall thickness:	± 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



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## Product Descriptions

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### Wire

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

#### Tolerances

Wire diameter:  $\pm 10\%$   
Length:  $+ 5\% / -1\%$

## Hazards Information

### HAZARDS

All materials listed in this catalogue, 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 catalogue, 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 catalogue 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 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 are subject to change without notice.

Prices shown include delivery except for those items marked as "special offer" or dangerous goods with transport restriction. They do not include value added tax, any import duties or local taxes.

### 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

#### 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

An administration charge of £10 will be made for any order received for which same day shipment within the UK is requested.

### Shipment

We aim to have all items listed in this catalogue in stock in the quantities and sizes listed. We can only undertake to despatch 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 despatched within 48 hours of receipt.

### Non delivery

If we have notified you of despatch of goods and you have not received delivery within 7 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 invoice with their first order. In order to establish a credit account we will require details of your bankers, along with two trade references.

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## Order information

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### 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, American Express, DELTA and Switch.

### VAT

VAT number: 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 colour 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

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

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## Order information

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

#### **Goodfellow GmbH**

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# 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

# Aluminium

## Al

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

Aluminium 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. Aluminium 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

### Ionisation 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 ..... <b>0.0008mm</b>	Purity..... <b>99.1%</b>
<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	EUR 115.00 EUR 126.00 EUR 152.00 EUR 189.00 EUR 258.00
976-658-568	140 x 140 mm	EUR 161.00 EUR 215.00 EUR 391.00 EUR 684.00
445-836-115	160 x 160 mm	EUR 173.00 EUR 248.00 EUR 473.00 EUR 848.00

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 ..... <b>0.0015mm</b>	Purity..... <b>99.0%</b>
Temper..... <b>As rolled</b>		
<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	EUR 172.00 EUR 204.00 EUR 294.00 EUR 457.00
119-654-409	50 x 50 mm	EUR 237.00 EUR 360.00 EUR 704.00

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

<b>AL000300</b>	Thickness ..... <b>0.002mm</b>	Purity..... <b>99.1%</b>
<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	EUR 146.00 EUR 199.00 EUR 359.00 EUR 624.00

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 ..... <b>0.003mm</b>	Purity..... <b>99.1%</b>
<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	EUR 142.00 EUR 191.00 EUR 339.00 EUR 585.00 EUR 1077.00

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 ..... <b>0.0045mm</b>	Purity..... <b>99.0%</b>
<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	EUR 137.00 EUR 150.00 EUR 182.00 EUR 232.00 EUR 326.00
600-191-963	50 x 50 mm	EUR 147.00 EUR 164.00 EUR 205.00 EUR 264.00 EUR 381.00
177-743-098	100 x 100 mm	EUR 168.00 EUR 193.00 EUR 260.00 EUR 401.00 EUR 682.00
579-499-148	150 x 150 mm	EUR 188.00 EUR 226.00 EUR 386.00 EUR 652.00
738-250-727	300 x 300 mm	EUR 308.00 EUR 497.00 EUR 1065.00

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

Metal - Aluminium

## Aluminium

### 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	EUR 136.00	EUR 148.00	EUR 179.00	EUR 228.00	EUR 320.00
50 x 50 mm	EUR 145.00	EUR 160.00	EUR 199.00	EUR 256.00	EUR 360.00
100 x 100 mm	EUR 163.00	EUR 185.00	EUR 239.00	EUR 353.00	EUR 587.00
150 x 150 mm	EUR 180.00	EUR 211.00	EUR 332.00	EUR 544.00	
300 x 300 mm	EUR 265.00	EUR 411.00	EUR 849.00		

### Sizes LT

#### Web Code

646-535-543  
 195-278-248

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 204.00	EUR 222.00	EUR 269.00	EUR 341.00	EUR 480.00
50 x 50 mm	EUR 217.00	EUR 240.00	EUR 299.00	EUR 384.00	EUR 540.00

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	EUR 111.00	EUR 123.00	EUR 156.00	EUR 205.00	EUR 276.00
50 x 50 mm	EUR 122.00	EUR 138.00	EUR 179.00	EUR 238.00	EUR 323.00
100 x 100 mm	EUR 143.00	EUR 168.00	EUR 226.00	EUR 305.00	EUR 417.00
150 x 150 mm	EUR 164.00	EUR 198.00	EUR 273.00	EUR 371.00	EUR 512.00
300 x 300 mm	EUR 227.00	EUR 287.00	EUR 415.00	EUR 571.00	EUR 794.00

### Sizes LT

#### Web Code

011-188-320  
 410-405-262

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 122.00	EUR 136.00	EUR 171.00	EUR 225.00	EUR 304.00
50 x 50 mm	EUR 146.00	EUR 166.00	EUR 215.00	EUR 286.00	EUR 388.00

### Coil

#### Web Code

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

Width 300mm		Quantity	
Length	1 Reel		
1 m	EUR 469.00		
2 m	EUR 565.00		
5 m	EUR 757.00		
10 m	EUR 974.00		

### Discs

#### 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 discs	20 discs	50 discs
4 mm	EUR 263.00	EUR 329.00	EUR 523.00
6 mm	EUR 266.00	EUR 333.00	EUR 530.00
8 mm	EUR 269.00	EUR 337.00	EUR 536.00
10 mm	EUR 272.00	EUR 341.00	EUR 543.00
15 mm	EUR 279.00	EUR 351.00	EUR 559.00
25 mm	EUR 294.00	EUR 372.00	EUR 592.00
50 mm	EUR 330.00	EUR 424.00	EUR 674.00

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	EUR 111.00	EUR 123.00	EUR 155.00	EUR 203.00	EUR 274.00
50 x 50 mm	EUR 121.00	EUR 137.00	EUR 177.00	EUR 235.00	EUR 319.00
100 x 100 mm	EUR 141.00	EUR 165.00	EUR 222.00	EUR 298.00	EUR 409.00
150 x 150 mm	EUR 161.00	EUR 194.00	EUR 267.00	EUR 362.00	EUR 498.00
300 x 300 mm	EUR 221.00	EUR 279.00	EUR 402.00	EUR 553.00	EUR 768.00

### Sizes LT

#### Web Code

848-844-730  
 235-451-445

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 122.00	EUR 135.00	EUR 170.00	EUR 223.00	EUR 301.00
50 x 50 mm	EUR 145.00	EUR 164.00	EUR 212.00	EUR 282.00	EUR 383.00

### Discs

#### 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 discs	20 discs	50 discs
4 mm	EUR 263.00	EUR 328.00	EUR 523.00
6 mm	EUR 265.00	EUR 332.00	EUR 529.00
8 mm	EUR 268.00	EUR 336.00	EUR 535.00
10 mm	EUR 271.00	EUR 340.00	EUR 542.00
15 mm	EUR 278.00	EUR 350.00	EUR 557.00
25 mm	EUR 292.00	EUR 370.00	EUR 588.00
50 mm	EUR 327.00	EUR 419.00	EUR 667.00

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

## Aluminium

### 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	EUR 219.00	EUR 263.00	EUR 330.00
50 x 50 mm	EUR 297.00	EUR 373.00	EUR 503.00
100 x 100 mm	EUR 452.00	EUR 675.00	

#### Sizes LT

**Web Code**  
 014-351-263  
 005-217-836

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 241.00	EUR 289.00	EUR 363.00
50 x 50 mm	EUR 371.00	EUR 466.00	EUR 629.00

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	EUR 126.00	EUR 131.00	EUR 146.00	EUR 167.00	EUR 204.00
50 x 50 mm	EUR 133.00	EUR 141.00	EUR 161.00	EUR 189.00	EUR 235.00
100 x 100 mm	EUR 146.00	EUR 161.00	EUR 192.00	EUR 232.00	EUR 297.00
150 x 150 mm	EUR 160.00	EUR 180.00	EUR 223.00	EUR 276.00	EUR 359.00
300 x 300 mm	EUR 202.00	EUR 239.00	EUR 316.00	EUR 408.00	EUR 545.00

#### Sizes LT

**Web Code**  
 834-297-923  
 481-287-447  
 015-282-193

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 138.00	EUR 145.00	EUR 160.00	EUR 183.00	EUR 225.00
50 x 50 mm	EUR 159.00	EUR 169.00	EUR 194.00	EUR 226.00	EUR 283.00
100 x 100 mm	EUR 220.00	EUR 241.00	EUR 288.00	EUR 349.00	EUR 446.00

#### Coil

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

Length	Quantity
	1 Reel
1 m	EUR 305.00
2 m	EUR 368.00
5 m	EUR 495.00
10 m	EUR 639.00
20 m	EUR 901.00

#### Discs

**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 discs	20 discs	50 discs
4 mm	EUR 231.00	EUR 265.00	EUR 351.00
6 mm	EUR 233.00	EUR 267.00	EUR 356.00
8 mm	EUR 235.00	EUR 270.00	EUR 360.00
10 mm	EUR 237.00	EUR 273.00	EUR 364.00
15 mm	EUR 242.00	EUR 280.00	EUR 375.00
25 mm	EUR 252.00	EUR 293.00	EUR 397.00
50 mm	EUR 276.00	EUR 327.00	EUR 450.00

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	EUR 117.00	EUR 130.00	EUR 159.00	EUR 197.00	EUR 255.00
150 x 150 mm	EUR 128.00	EUR 145.00	EUR 182.00	EUR 230.00	EUR 301.00
300 x 300 mm	EUR 159.00	EUR 188.00	EUR 251.00	EUR 328.00	

#### Sizes LT

**Web Code**  
 566-253-184  
 228-110-268  
 758-193-474

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 102.00	EUR 108.00	EUR 124.00	EUR 148.00	EUR 186.00
50 x 50 mm	EUR 107.00	EUR 115.00	EUR 136.00	EUR 165.00	EUR 209.00
100 x 100 mm	EUR 147.00	EUR 162.00	EUR 198.00	EUR 247.00	EUR 319.00

#### Discs

**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 discs	20 discs	50 discs
4 mm	EUR 217.00	EUR 251.00	EUR 324.00
6 mm	EUR 218.00	EUR 253.00	EUR 328.00
8 mm	EUR 220.00	EUR 255.00	EUR 331.00
10 mm	EUR 221.00	EUR 257.00	EUR 334.00
15 mm	EUR 225.00	EUR 262.00	EUR 342.00
25 mm	EUR 232.00	EUR 273.00	EUR 358.00
50 mm	EUR 250.00	EUR 298.00	EUR 398.00

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

## Aluminium

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	EUR 217.00	EUR 259.00	EUR 324.00	EUR 399.00	EUR 509.00
50 x 50 mm	EUR 292.00	EUR 365.00	EUR 492.00	EUR 771.00	
50 x 100 mm	EUR 354.00	EUR 453.00	EUR 765.00		
100 x 100 mm	EUR 441.00	EUR 640.00			

#### Sizes LT

##### Web Code

354-860-623  
 779-360-803

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 238.00	EUR 285.00	EUR 357.00	EUR 439.00	EUR 560.00
50 x 50 mm	EUR 365.00	EUR 456.00	EUR 614.00	EUR 964.00	

#### Discs

##### Web Code

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

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	EUR 303.00	EUR 336.00	EUR 416.00
6 mm	EUR 326.00	EUR 369.00	EUR 468.00
8 mm	EUR 350.00	EUR 402.00	EUR 522.00
10 mm	EUR 373.00	EUR 436.00	EUR 576.00
15 mm	EUR 430.00	EUR 517.00	EUR 706.00
25 mm	EUR 546.00	EUR 682.00	

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	EUR 156.00	EUR 184.00	EUR 244.00	EUR 318.00	

#### 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	EUR 102.00	EUR 108.00	EUR 123.00	EUR 148.00	EUR 184.00
50 x 50 mm	EUR 107.00	EUR 115.00	EUR 134.00	EUR 163.00	EUR 206.00
100 x 100 mm	EUR 116.00	EUR 128.00	EUR 156.00	EUR 194.00	EUR 250.00
150 x 150 mm	EUR 126.00	EUR 142.00	EUR 178.00	EUR 225.00	EUR 294.00

#### Coil

##### Web Code

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

Length	Quantity
	1 Reel
1 m	EUR 238.00
2 m	EUR 284.00
5 m	EUR 375.00
10 m	EUR 479.00
20 m	EUR 666.00

#### Discs

##### 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 discs	20 discs	50 discs
4 mm	EUR 217.00	EUR 251.00	EUR 324.00
6 mm	EUR 218.00	EUR 253.00	EUR 327.00
8 mm	EUR 219.00	EUR 255.00	EUR 330.00
10 mm	EUR 221.00	EUR 257.00	EUR 333.00
15 mm	EUR 224.00	EUR 262.00	EUR 341.00
25 mm	EUR 231.00	EUR 271.00	EUR 356.00
50 mm	EUR 248.00	EUR 295.00	EUR 394.00

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

Metal – Aluminium

## Aluminium

### 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	EUR 152.00	EUR 180.00	EUR 238.00	EUR 310.00	

### 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	EUR 100.00	EUR 106.00	EUR 121.00	EUR 145.00	EUR 181.00
50 x 50 mm	EUR 105.00	EUR 112.00	EUR 132.00	EUR 160.00	EUR 202.00
100 x 100 mm	EUR 114.00	EUR 126.00	EUR 153.00	EUR 190.00	EUR 245.00
150 x 150 mm	EUR 124.00	EUR 139.00	EUR 174.00	EUR 220.00	EUR 287.00
300 x 300 mm	EUR 190.00	EUR 224.00	EUR 297.00	EUR 387.00	

### Coil

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

Length	Quantity	
	1 Reel	
1 m	EUR 224.00	
2 m	EUR 268.00	
5 m	EUR 355.00	
10 m	EUR 455.00	
20 m	EUR 599.00	

### Discs

**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 discs	
4 mm	EUR 214.00	
6 mm	EUR 215.00	
8 mm	EUR 217.00	
10 mm	EUR 218.00	
15 mm	EUR 221.00	
25 mm	EUR 228.00	
50 mm	EUR 245.00	

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	EUR 161.00	
5 m	EUR 214.00	
10 m	EUR 255.00	
20 m	EUR 315.00	
50 m	EUR 442.00	

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	EUR 150.00	
1 m	EUR 163.00	
2 m	EUR 181.00	
5 m	EUR 218.00	
10 m	EUR 261.00	
20 m	EUR 324.00	

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	EUR 419.00	EUR 538.00	EUR 778.00	

### Sizes LT

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

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 207.00	EUR 238.00	EUR 303.00	EUR 379.00
50 x 50 mm	EUR 277.00	EUR 338.00	EUR 461.00	EUR 603.00
100 x 100 mm	EUR 503.00	EUR 646.00	EUR 933.00	

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.



## Aluminium

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	EUR 135.00	EUR 156.00	EUR 200.00	EUR 257.00	

#### 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	EUR 98.50	EUR 104.00	EUR 118.00	EUR 141.00	EUR 175.00
50 x 50 mm	EUR 102.00	EUR 109.00	EUR 126.00	EUR 151.00	EUR 190.00
100 x 100 mm	EUR 109.00	EUR 118.00	EUR 141.00	EUR 172.00	EUR 220.00
150 x 150 mm	EUR 115.00	EUR 127.00	EUR 156.00	EUR 194.00	EUR 250.00
300 x 300 mm	EUR 169.00	EUR 195.00	EUR 251.00	EUR 321.00	

#### Coil

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

Length	Quantity	
	1 Reel	
1 m	EUR 194.00	
2 m	EUR 226.00	
5 m	EUR 289.00	
10 m	EUR 361.00	
20 m	EUR 532.00	

#### Discs

**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 discs	
4 mm	EUR 213.00	
6 mm	EUR 214.00	
8 mm	EUR 215.00	
10 mm	EUR 216.00	
15 mm	EUR 218.00	
25 mm	EUR 223.00	
50 mm	EUR 235.00	

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	EUR 128.00	
2 m	EUR 137.00	
5 m	EUR 160.00	
10 m	EUR 195.00	
20 m	EUR 259.00	

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	EUR 373.00	EUR 474.00	EUR 675.00		

#### Sizes LT

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

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 195.00	EUR 222.00	EUR 277.00	EUR 343.00	EUR 442.00
50 x 50 mm	EUR 255.00	EUR 306.00	EUR 410.00	EUR 531.00	

#### Discs

**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 discs	20 discs	50 discs
4 mm	EUR 285.00	EUR 325.00	EUR 420.00
6 mm	EUR 303.00	EUR 351.00	EUR 460.00
8 mm	EUR 321.00	EUR 376.00	EUR 500.00
10 mm	EUR 339.00	EUR 402.00	EUR 541.00
15 mm	EUR 384.00	EUR 465.00	EUR 642.00
25 mm	EUR 474.00	EUR 593.00	
50 mm	EUR 699.00		

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 – Aluminium

## Aluminium

### 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	EUR 94.00	EUR 100.00	EUR 117.00	EUR 144.00	EUR 180.00
50 x 50 mm	EUR 95.50	EUR 102.00	EUR 120.00	EUR 149.00	EUR 186.00
100 x 100 mm	EUR 98.50	EUR 106.00	EUR 126.00	EUR 158.00	EUR 199.00
150 x 150 mm	EUR 101.00	EUR 110.00	EUR 132.00	EUR 166.00	EUR 211.00
300 x 300 mm	EUR 109.00	EUR 122.00	EUR 151.00	EUR 193.00	EUR 248.00

#### 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	EUR 146.00	
2 m	EUR 160.00	
5 m	EUR 190.00	
10 m	EUR 226.00	
20 m	EUR 281.00	

#### Discs

##### 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 discs	20 discs	50 discs
4 mm	EUR 231.00	EUR 272.00	EUR 329.00
6 mm	EUR 232.00	EUR 273.00	EUR 330.00
8 mm	EUR 232.00	EUR 273.00	EUR 331.00
10 mm	EUR 232.00	EUR 274.00	EUR 332.00
15 mm	EUR 233.00	EUR 276.00	EUR 335.00
25 mm	EUR 236.00	EUR 279.00	EUR 339.00
50 mm	EUR 241.00	EUR 286.00	EUR 351.00

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	EUR 94.00	EUR 100.00	EUR 117.00	EUR 144.00	EUR 180.00
50 x 50 mm	EUR 95.50	EUR 102.00	EUR 120.00	EUR 149.00	EUR 186.00
100 x 100 mm	EUR 98.50	EUR 106.00	EUR 126.00	EUR 158.00	EUR 199.00
150 x 150 mm	EUR 101.00	EUR 110.00	EUR 132.00	EUR 166.00	EUR 211.00
300 x 300 mm	EUR 109.00	EUR 122.00	EUR 151.00	EUR 193.00	EUR 248.00

#### 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	EUR 146.00	
2 m	EUR 160.00	
5 m	EUR 190.00	
10 m	EUR 226.00	
20 m	EUR 282.00	

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	EUR 94.50	EUR 100.00	EUR 117.00	EUR 145.00	EUR 181.00
50 x 50 mm	EUR 96.00	EUR 102.00	EUR 121.00	EUR 150.00	EUR 188.00
100 x 100 mm	EUR 99.00	EUR 107.00	EUR 127.00	EUR 159.00	EUR 201.00
150 x 150 mm	EUR 102.00	EUR 111.00	EUR 134.00	EUR 169.00	EUR 215.00
300 x 300 mm	EUR 111.00	EUR 124.00	EUR 155.00	EUR 198.00	EUR 255.00

#### 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	EUR 149.00	
2 m	EUR 164.00	
5 m	EUR 197.00	
10 m	EUR 236.00	
20 m	EUR 295.00	

#### Discs

##### 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 discs	20 discs	50 discs
4 mm	EUR 231.00	EUR 272.00	EUR 330.00
6 mm	EUR 232.00	EUR 273.00	EUR 331.00
8 mm	EUR 232.00	EUR 274.00	EUR 332.00
10 mm	EUR 233.00	EUR 274.00	EUR 333.00
15 mm	EUR 234.00	EUR 276.00	EUR 335.00
25 mm	EUR 236.00	EUR 279.00	EUR 340.00
50 mm	EUR 242.00	EUR 287.00	EUR 353.00

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

## Aluminium

### Al



## Foil

**AL000437**

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

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

**Coil**

**Width 31.4mm**

**Quantity**

**Web Code**

**Length 1 Reel**

303-390-420	1 m	EUR 128.00
950-449-019	5 m	EUR 149.00
623-455-271	10 m	EUR 169.00
378-608-137	20 m	EUR 201.00
645-284-762	50 m	EUR 280.00

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

**AL000438**

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

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

**Coil**

**Width 50mm**

**Quantity**

**Web Code**

**Length 1 Reel**

973-598-129	1 m	EUR 149.00
370-790-516	5 m	EUR 197.00
751-117-466	10 m	EUR 236.00
119-490-150	20 m	EUR 295.00
797-401-534	50 m	EUR 430.00

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

**AL000435**

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

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

**Size**

**Quantity**

**Web Code**

**Size**

**1pc 2pcs 5pcs 10pcs 20pcs**

758-638-745	25 x 25 mm	EUR 94.50	EUR 101.00	EUR 118.00	EUR 146.00	EUR 182.00
829-846-076	50 x 50 mm	EUR 96.50	EUR 103.00	EUR 122.00	EUR 151.00	EUR 190.00
730-755-529	100 x 100 mm	EUR 100.00	EUR 108.00	EUR 129.00	EUR 162.00	EUR 205.00
344-449-973	150 x 150 mm	EUR 103.00	EUR 113.00	EUR 137.00	EUR 173.00	EUR 221.00
056-244-455	300 x 300 mm	EUR 114.00	EUR 128.00	EUR 161.00	EUR 207.00	EUR 268.00

**Coil**

**Width 300mm**

**Quantity**

**Web Code**

**Length 1 Reel**

030-560-711	1 m	EUR 154.00
820-091-001	2 m	EUR 171.00
511-378-834	5 m	EUR 208.00
922-352-926	10 m	EUR 251.00
294-114-907	20 m	EUR 317.00

**Discs**

**Quantity**

**Web Code**

**Diameter**

**10 discs 20 discs 50 discs**

764-364-005	4 mm	EUR 231.00	EUR 273.00	EUR 330.00
545-504-033	6 mm	EUR 232.00	EUR 273.00	EUR 331.00
188-003-551	8 mm	EUR 232.00	EUR 274.00	EUR 332.00
500-439-785	10 mm	EUR 233.00	EUR 275.00	EUR 333.00
554-962-908	15 mm	EUR 234.00	EUR 277.00	EUR 336.00
370-365-827	25 mm	EUR 237.00	EUR 280.00	EUR 342.00
295-726-783	50 mm	EUR 244.00	EUR 290.00	EUR 357.00

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**

**Coil**

**Width 0.1mm**

**Quantity**

**Web Code**

**Length 1 Reel**

440-921-668	0.5 m	EUR 184.00
631-368-637	1 m	EUR 214.00
641-281-028	2 m	EUR 260.00
745-943-919	5 m	EUR 362.00
251-527-021	10 m	EUR 538.00

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**

**Coil**

**Width 6mm**

**Quantity**

**Web Code**

**Length 1 Reel**

425-531-778	0.5 m	EUR 119.00
799-565-670	1 m	EUR 126.00
401-160-681	2 m	EUR 136.00
184-590-295	5 m	EUR 163.00
573-616-643	10 m	EUR 202.00
223-958-543	20 m	EUR 272.00
172-331-749	50 m	EUR 465.00

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

Metal – Aluminium

## Aluminium

### 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	EUR 118.00
1 m	EUR 123.00
2 m	EUR 130.00
5 m	EUR 146.00
10 m	EUR 167.00

#### 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

#### Width 10mm

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 175.00	EUR 194.00	EUR 237.00	EUR 291.00	EUR 366.00
50 x 50 mm	EUR 212.00	EUR 247.00	EUR 320.00	EUR 409.00	EUR 533.00
100 x 100 mm	EUR 287.00	EUR 353.00	EUR 487.00	EUR 645.00	EUR 867.00
150 x 150 mm	EUR 361.00	EUR 458.00	EUR 654.00		
250 x 300 mm	EUR 546.00	EUR 720.00			

#### Coil

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

#### Width 250mm

Length	1 Reel
0.5 m	EUR 698.00
1 m	EUR 917.00

#### Discs

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

#### Diameter

	Quantity		
	10 discs	20 discs	50 discs
4 mm	EUR 266.00	EUR 300.00	EUR 394.00
6 mm	EUR 276.00	EUR 314.00	EUR 416.00
8 mm	EUR 285.00	EUR 327.00	EUR 437.00
10 mm	EUR 295.00	EUR 340.00	EUR 458.00
15 mm	EUR 318.00	EUR 374.00	EUR 511.00
25 mm	EUR 366.00	EUR 441.00	EUR 616.00
50 mm	EUR 484.00	EUR 608.00	EUR 881.00

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

#### Width 10mm

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 91.50	EUR 98.00	EUR 115.00	EUR 144.00	EUR 181.00
50 x 50 mm	EUR 93.50	EUR 101.00	EUR 120.00	EUR 150.00	EUR 189.00
100 x 100 mm	EUR 97.50	EUR 106.00	EUR 128.00	EUR 162.00	EUR 207.00
150 x 150 mm	EUR 101.00	EUR 112.00	EUR 137.00	EUR 174.00	EUR 224.00
300 x 300 mm	EUR 113.00	EUR 128.00	EUR 163.00	EUR 211.00	EUR 277.00

#### 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	EUR 139.00
1 m	EUR 152.00
2 m	EUR 171.00
5 m	EUR 211.00
10 m	EUR 259.00

#### Discs

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

#### Diameter

	Quantity			
	10 discs	20 discs	50 discs	100 discs
4 mm	EUR 211.00	EUR 253.00	EUR 312.00	EUR 410.00
6 mm	EUR 212.00	EUR 254.00	EUR 313.00	EUR 412.00
8 mm	EUR 212.00	EUR 255.00	EUR 315.00	EUR 414.00
10 mm	EUR 213.00	EUR 256.00	EUR 316.00	EUR 415.00
15 mm	EUR 215.00	EUR 258.00	EUR 319.00	EUR 420.00
25 mm	EUR 217.00	EUR 262.00	EUR 326.00	EUR 429.00
50 mm	EUR 225.00	EUR 272.00	EUR 343.00	EUR 453.00

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

## Aluminium

### 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	EUR 101.00	EUR 112.00	EUR 137.00	EUR 174.00	EUR 224.00
300 x 300 mm	EUR 113.00	EUR 128.00	EUR 163.00	EUR 211.00	EUR 277.00

#### 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	EUR 139.00
1 m	EUR 152.00
2 m	EUR 172.00
5 m	EUR 212.00
10 m	EUR 260.00
20 m	EUR 340.00

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	EUR 95.00	EUR 101.00	EUR 118.00	EUR 146.00	EUR 183.00
50 x 50 mm	EUR 97.00	EUR 104.00	EUR 123.00	EUR 153.00	EUR 192.00
100 x 100 mm	EUR 101.00	EUR 110.00	EUR 132.00	EUR 166.00	EUR 210.00
150 x 150 mm	EUR 105.00	EUR 115.00	EUR 141.00	EUR 179.00	EUR 229.00
300 x 300 mm	EUR 117.00	EUR 133.00	EUR 168.00	EUR 217.00	EUR 283.00

#### Coil

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

Length	Quantity
	1 Reel
1 m	EUR 160.00
2 m	EUR 180.00
5 m	EUR 221.00
10 m	EUR 270.00
20 m	EUR 344.00

#### Discs

**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 discs	20 discs	50 discs
4 mm	EUR 232.00	EUR 273.00	EUR 330.00
6 mm	EUR 232.00	EUR 274.00	EUR 332.00
8 mm	EUR 233.00	EUR 275.00	EUR 333.00
10 mm	EUR 233.00	EUR 275.00	EUR 334.00
15 mm	EUR 235.00	EUR 278.00	EUR 338.00
25 mm	EUR 238.00	EUR 282.00	EUR 345.00
50 mm	EUR 246.00	EUR 293.00	EUR 362.00

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	EUR 99.50	EUR 102.00	EUR 110.00	EUR 122.00	EUR 145.00
50 x 50 mm	EUR 101.00	EUR 105.00	EUR 114.00	EUR 127.00	EUR 152.00
100 x 100 mm	EUR 104.00	EUR 109.00	EUR 121.00	EUR 137.00	EUR 166.00
150 x 150 mm	EUR 108.00	EUR 114.00	EUR 128.00	EUR 147.00	EUR 181.00
300 x 300 mm	EUR 117.00	EUR 127.00	EUR 149.00	EUR 177.00	EUR 223.00

#### Coil

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

Length	Quantity
	1 Reel
1 m	EUR 146.00
2 m	EUR 162.00
5 m	EUR 192.00
10 m	EUR 228.00
20 m	EUR 308.00

#### Discs

**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 discs	20 discs	50 discs
4 mm	EUR 192.00	EUR 214.00	EUR 266.00
6 mm	EUR 193.00	EUR 214.00	EUR 267.00
8 mm	EUR 193.00	EUR 215.00	EUR 268.00
10 mm	EUR 194.00	EUR 215.00	EUR 269.00
15 mm	EUR 195.00	EUR 217.00	EUR 271.00
25 mm	EUR 197.00	EUR 220.00	EUR 276.00
50 mm	EUR 202.00	EUR 227.00	EUR 287.00

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

## Aluminium

### 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	EUR 99.50	EUR 102.00	EUR 110.00	EUR 122.00	EUR 145.00
50 x 50 mm	EUR 101.00	EUR 105.00	EUR 114.00	EUR 127.00	EUR 152.00
100 x 100 mm	EUR 104.00	EUR 109.00	EUR 121.00	EUR 137.00	EUR 166.00
150 x 150 mm	EUR 108.00	EUR 114.00	EUR 128.00	EUR 147.00	EUR 181.00
300 x 300 mm	EUR 117.00	EUR 127.00	EUR 149.00	EUR 177.00	EUR 223.00

#### Coil

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

Length	Quantity	
	1 Reel	
1 m	EUR 146.00	
2 m	EUR 162.00	
5 m	EUR 192.00	
10 m	EUR 228.00	
20 m	EUR 308.00	

#### Discs

**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 discs	20 discs	50 discs
4 mm	EUR 192.00	EUR 214.00	EUR 266.00
6 mm	EUR 193.00	EUR 214.00	EUR 267.00
8 mm	EUR 193.00	EUR 215.00	EUR 268.00
10 mm	EUR 194.00	EUR 215.00	EUR 269.00
15 mm	EUR 195.00	EUR 217.00	EUR 271.00
25 mm	EUR 197.00	EUR 220.00	EUR 276.00
50 mm	EUR 202.00	EUR 227.00	EUR 287.00

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	EUR 99.50	EUR 103.00	EUR 110.00	EUR 122.00	EUR 145.00
50 x 50 mm	EUR 101.00	EUR 105.00	EUR 114.00	EUR 127.00	EUR 153.00
100 x 100 mm	EUR 105.00	EUR 110.00	EUR 121.00	EUR 138.00	EUR 167.00
150 x 150 mm	EUR 108.00	EUR 114.00	EUR 129.00	EUR 148.00	EUR 182.00
200 x 300 mm	EUR 114.00	EUR 123.00	EUR 143.00	EUR 168.00	EUR 210.00

#### Discs

**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 discs	20 discs	50 discs
4 mm	EUR 192.00	EUR 214.00	EUR 266.00
6 mm	EUR 193.00	EUR 214.00	EUR 267.00
8 mm	EUR 193.00	EUR 215.00	EUR 268.00
10 mm	EUR 194.00	EUR 215.00	EUR 269.00
15 mm	EUR 195.00	EUR 217.00	EUR 271.00
25 mm	EUR 197.00	EUR 220.00	EUR 276.00
50 mm	EUR 202.00	EUR 227.00	EUR 288.00

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	EUR 186.00	EUR 209.00	EUR 256.00	EUR 313.00	EUR 401.00
50 x 50 mm	EUR 236.00	EUR 280.00	EUR 368.00	EUR 472.00	EUR 624.00
100 x 100 mm	EUR 336.00	EUR 421.00	EUR 592.00	EUR 788.00	EUR 1072.00
150 x 150 mm	EUR 436.00	EUR 563.00	EUR 816.00	EUR 1105.00	EUR 1520.00

#### Coil

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

Length	Quantity	
	1 Reel	
0.5 m	EUR 827.00	
1 m	EUR 1099.00	
2 m	EUR 1484.00	
5 m	EUR 2250.00	

#### Discs

**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 discs	20 discs	50 discs
4 mm	EUR 231.00	EUR 257.00	EUR 317.00
6 mm	EUR 241.00	EUR 271.00	EUR 340.00
8 mm	EUR 252.00	EUR 286.00	EUR 362.00
10 mm	EUR 262.00	EUR 300.00	EUR 385.00
15 mm	EUR 287.00	EUR 336.00	EUR 442.00
25 mm	EUR 338.00	EUR 407.00	EUR 555.00
50 mm	EUR 465.00	EUR 587.00	EUR 840.00

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

## Aluminium

### Al



## Foil

**AL000565**

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

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

#### 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	EUR 222.00	EUR 260.00	EUR 338.00	EUR 428.00	EUR 563.00
50 x 50 mm	EUR 309.00	EUR 382.00	EUR 531.00	EUR 702.00	EUR 950.00
100 x 100 mm	EUR 482.00	EUR 627.00	EUR 918.00	EUR 1249.00	
150 x 150 mm	EUR 654.00	EUR 871.00	EUR 1304.00		

#### Coil

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

Width 150mm Length	Quantity
	1 Reel
0.5 m	EUR 1117.00
1 m	EUR 1510.00

#### Discs

**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 discs	20 discs	50 discs
4 mm	EUR 287.00	EUR 331.00	EUR 430.00
6 mm	EUR 311.00	EUR 365.00	EUR 484.00
8 mm	EUR 335.00	EUR 399.00	EUR 538.00
10 mm	EUR 359.00	EUR 433.00	EUR 591.00
15 mm	EUR 420.00	EUR 518.00	EUR 726.00
25 mm	EUR 540.00	EUR 688.00	EUR 995.00
50 mm	EUR 841.00	EUR 1114.00	

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 Length	Quantity
	1 Reel
1 m	EUR 143.00
2 m	EUR 158.00
5 m	EUR 189.00
10 m	EUR 225.00
20 m	EUR 278.00

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	EUR 94.00	EUR 97.00	EUR 104.00	EUR 116.00	EUR 139.00
50 x 50 mm	EUR 96.00	EUR 99.50	EUR 109.00	EUR 122.00	EUR 147.00
100 x 100 mm	EUR 99.50	EUR 105.00	EUR 117.00	EUR 134.00	EUR 164.00
150 x 150 mm	EUR 103.00	EUR 110.00	EUR 125.00	EUR 145.00	EUR 180.00
300 x 300 mm	EUR 114.00	EUR 126.00	EUR 150.00	EUR 180.00	EUR 229.00

#### Coil

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

Width 305mm Length	Quantity
	1 Reel
0.5 m	EUR 134.00
1 m	EUR 146.00
2 m	EUR 164.00
5 m	EUR 200.00
10 m	EUR 241.00
20 m	EUR 317.00

#### Discs

**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 discs	20 discs	50 discs
4 mm	EUR 186.00	EUR 207.00	EUR 257.00
6 mm	EUR 186.00	EUR 207.00	EUR 258.00
8 mm	EUR 187.00	EUR 208.00	EUR 259.00
10 mm	EUR 187.00	EUR 209.00	EUR 260.00
15 mm	EUR 189.00	EUR 210.00	EUR 263.00
25 mm	EUR 191.00	EUR 213.00	EUR 268.00
50 mm	EUR 197.00	EUR 222.00	EUR 281.00

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

**Aluminium**

**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**  
 25 x 25 mm  
 50 x 50 mm  
 100 x 100 mm  
 150 x 150 mm  
 300 x 300 mm

		<b>Quantity</b>				
		<b>1pc</b>	<b>2pcs</b>	<b>5pcs</b>	<b>10pcs</b>	<b>20pcs</b>
25 x 25 mm	EUR 97.50	EUR 101.00	EUR 111.00	EUR 126.00	EUR 155.00	
50 x 50 mm	EUR 100.00	EUR 104.00	EUR 116.00	EUR 133.00	EUR 165.00	
100 x 100 mm	EUR 104.00	EUR 111.00	EUR 126.00	EUR 147.00	EUR 185.00	
150 x 150 mm	EUR 109.00	EUR 117.00	EUR 136.00	EUR 161.00	EUR 205.00	
300 x 300 mm	EUR 122.00	EUR 136.00	EUR 166.00	EUR 204.00		

**Coil**

**Web Code**

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

**Width 305mm**

		<b>1 Reel</b>
<b>Length</b>		
1 m	EUR 158.00	
2 m	EUR 179.00	
5 m	EUR 221.00	
10 m	EUR 271.00	
20 m	EUR 343.00	

**Discs**

**Web Code**

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

		<b>Quantity</b>		
<b>Diameter</b>		<b>10 discs</b>	<b>20 discs</b>	<b>50 discs</b>
4 mm	EUR 195.00	EUR 221.00	EUR 272.00	
6 mm	EUR 195.00	EUR 222.00	EUR 273.00	
8 mm	EUR 196.00	EUR 223.00	EUR 275.00	
10 mm	EUR 196.00	EUR 224.00	EUR 276.00	
15 mm	EUR 198.00	EUR 226.00	EUR 279.00	
25 mm	EUR 201.00	EUR 230.00	EUR 285.00	
50 mm	EUR 208.00	EUR 240.00	EUR 301.00	

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**  
 50 x 50 mm  
 100 x 100 mm  
 150 x 150 mm  
 300 x 300 mm

		<b>Quantity</b>				
		<b>1pc</b>	<b>2pcs</b>	<b>5pcs</b>	<b>10pcs</b>	<b>20pcs</b>
50 x 50 mm	EUR 114.00	EUR 125.00	EUR 155.00	EUR 199.00	EUR 283.00	
100 x 100 mm	EUR 124.00	EUR 139.00	EUR 177.00	EUR 231.00	EUR 328.00	
150 x 150 mm	EUR 134.00	EUR 153.00	EUR 199.00	EUR 262.00	EUR 373.00	
300 x 300 mm	EUR 164.00	EUR 196.00	EUR 266.00	EUR 357.00		

**Coil**

**Web Code**

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

**Width 305mm**

		<b>1 Reel</b>
<b>Length</b>		
0.5 m	EUR 201.00	
1 m	EUR 242.00	
2 m	EUR 306.00	
5 m	EUR 449.00	

**Discs**

**Web Code**

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

		<b>Quantity</b>		
<b>Diameter</b>		<b>10 discs</b>	<b>20 discs</b>	<b>50 discs</b>
4 mm	EUR 245.00	EUR 317.00	EUR 426.00	
6 mm	EUR 246.00	EUR 319.00	EUR 428.00	
8 mm	EUR 248.00	EUR 321.00	EUR 431.00	
10 mm	EUR 249.00	EUR 322.00	EUR 434.00	
15 mm	EUR 252.00	EUR 327.00	EUR 441.00	
25 mm	EUR 258.00	EUR 336.00	EUR 455.00	
50 mm	EUR 274.00	EUR 358.00	EUR 491.00	

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**

		<b>1 Reel</b>
<b>Length</b>		
1 m	EUR 192.00	
2 m	EUR 228.00	
5 m	EUR 299.00	
10 m	EUR 384.00	
20 m	EUR 661.00	

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



## Aluminium

### 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	EUR 232.00	EUR 275.00	EUR 360.00	EUR 461.00	EUR 609.00
50 x 50 mm	EUR 329.00	EUR 411.00	EUR 576.00	EUR 766.00	EUR 1041.00
100 x 100 mm	EUR 522.00	EUR 685.00	EUR 1009.00	EUR 1377.00	EUR 1905.00
150 x 150 mm	EUR 716.00	EUR 958.00	EUR 1441.00	EUR 1988.00	

### Coil

#### Web Code

636-328-641  
 541-077-603

Width **150mm**

Length	Quantity
	1 Reel
1 m	EUR 1667.00
2 m	EUR 2288.00

### Discs

#### 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 discs	20 discs	50 discs
4 mm	EUR 293.00	EUR 339.00	EUR 443.00
6 mm	EUR 320.00	EUR 377.00	EUR 503.00
8 mm	EUR 347.00	EUR 415.00	EUR 563.00
10 mm	EUR 374.00	EUR 453.00	EUR 623.00
15 mm	EUR 441.00	EUR 548.00	EUR 774.00
25 mm	EUR 575.00	EUR 738.00	EUR 1074.00
50 mm	EUR 912.00	EUR 1214.00	EUR 1828.00

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	EUR 193.00	EUR 229.00	EUR 305.00	EUR 399.00	EUR 548.00
50 x 50 mm	EUR 267.00	EUR 333.00	EUR 470.00	EUR 633.00	EUR 878.00
100 x 100 mm	EUR 414.00	EUR 541.00	EUR 800.00	EUR 1099.00	EUR 1538.00

### Coil

#### Web Code

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

Width **100mm**

Length	Quantity
	1 Reel
0.5 m	EUR 810.00
1 m	EUR 1083.00
2 m	EUR 1471.00

### Discs

#### 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 discs	20 discs	50 discs
4 mm	EUR 292.00	EUR 367.00	EUR 487.00
6 mm	EUR 313.00	EUR 396.00	EUR 533.00
8 mm	EUR 333.00	EUR 425.00	EUR 579.00
10 mm	EUR 354.00	EUR 454.00	EUR 625.00
15 mm	EUR 405.00	EUR 527.00	EUR 740.00
25 mm	EUR 508.00	EUR 672.00	EUR 969.00
50 mm	EUR 765.00	EUR 1036.00	

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	EUR 193.00	EUR 229.00	EUR 305.00	EUR 399.00	EUR 548.00
50 x 50 mm	EUR 267.00	EUR 333.00	EUR 470.00	EUR 633.00	EUR 878.00
100 x 100 mm	EUR 414.00	EUR 541.00	EUR 800.00	EUR 1099.00	
150 x 150 mm	EUR 562.00	EUR 750.00	EUR 1129.00		
300 x 300 mm	EUR 1004.00	EUR 1376.00			

### Coil

#### Web Code

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

Width **150mm**

Length	Quantity
	1 Reel
0.5 m	EUR 958.00
1 m	EUR 1293.00
1.5 m	EUR 1550.00
2 m	EUR 1767.00

### Discs

#### 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 discs	20 discs	50 discs
4 mm	EUR 292.00	EUR 367.00	EUR 487.00
6 mm	EUR 313.00	EUR 396.00	EUR 533.00
8 mm	EUR 333.00	EUR 425.00	EUR 579.00
10 mm	EUR 354.00	EUR 454.00	EUR 625.00
15 mm	EUR 405.00	EUR 527.00	EUR 740.00
25 mm	EUR 508.00	EUR 672.00	EUR 969.00
50 mm	EUR 765.00	EUR 1036.00	EUR 1545.00

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.

## Aluminium

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	EUR 80.50	EUR 86.50	EUR 104.00	EUR 121.00	EUR 139.00
50 x 50 mm	EUR 82.50	EUR 89.00	EUR 108.00	EUR 127.00	EUR 147.00
100 x 100 mm	EUR 86.00	EUR 94.50	EUR 116.00	EUR 139.00	EUR 164.00
150 x 150 mm	EUR 90.00	EUR 100.00	EUR 125.00	EUR 150.00	EUR 181.00
300 x 300 mm	EUR 101.00	EUR 116.00	EUR 150.00	EUR 186.00	EUR 231.00

#### Coil

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

Length	Quantity	
	1 Reel	
1 m	EUR 116.00	
2 m	EUR 135.00	
5 m	EUR 177.00	
10 m	EUR 228.00	
20 m	EUR 353.00	

#### Discs

**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 discs	20 discs	50 discs
4 mm	EUR 190.00	EUR 206.00	EUR 254.00
6 mm	EUR 191.00	EUR 207.00	EUR 255.00
8 mm	EUR 191.00	EUR 208.00	EUR 256.00
10 mm	EUR 192.00	EUR 208.00	EUR 257.00
15 mm	EUR 193.00	EUR 210.00	EUR 260.00
25 mm	EUR 195.00	EUR 213.00	EUR 265.00
50 mm	EUR 201.00	EUR 222.00	EUR 279.00

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	EUR 100.00	EUR 115.00	EUR 148.00	EUR 184.00	EUR 228.00
300 x 300 mm	EUR 122.00	EUR 145.00	EUR 197.00	EUR 252.00	EUR 387.00

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	EUR 80.50	EUR 86.50	EUR 104.00	EUR 121.00	EUR 139.00
50 x 50 mm	EUR 82.50	EUR 89.00	EUR 108.00	EUR 127.00	EUR 147.00
100 x 100 mm	EUR 86.00	EUR 94.50	EUR 116.00	EUR 139.00	EUR 164.00
150 x 150 mm	EUR 90.00	EUR 100.00	EUR 125.00	EUR 150.00	EUR 181.00
300 x 300 mm	EUR 101.00	EUR 116.00	EUR 150.00	EUR 186.00	EUR 231.00

#### Coil

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

Length	Quantity	
	1 Reel	
1 m	EUR 116.00	
2 m	EUR 135.00	
5 m	EUR 177.00	
10 m	EUR 228.00	
20 m	EUR 353.00	

#### Discs

**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 discs	20 discs	50 discs
4 mm	EUR 190.00	EUR 206.00	EUR 254.00
6 mm	EUR 191.00	EUR 207.00	EUR 255.00
8 mm	EUR 191.00	EUR 208.00	EUR 256.00
10 mm	EUR 192.00	EUR 208.00	EUR 257.00
15 mm	EUR 193.00	EUR 210.00	EUR 260.00
25 mm	EUR 195.00	EUR 213.00	EUR 265.00
50 mm	EUR 201.00	EUR 222.00	EUR 279.00

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	EUR 195.00	EUR 234.00	EUR 387.00	EUR 654.00
100 x 179 mm	EUR 214.00	EUR 270.00	EUR 514.00	EUR 909.00
100 x 358 mm	EUR 265.00	EUR 422.00		

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 - Aluminium

**Aluminium**

**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	EUR 86.50	EUR 89.00	EUR 96.00	EUR 107.00	EUR 128.00
50 x 50 mm	EUR 88.50	EUR 92.00	EUR 100.00	EUR 113.00	EUR 136.00
100 x 100 mm	EUR 92.50	EUR 97.50	EUR 109.00	EUR 125.00	EUR 153.00
150 x 150 mm	EUR 96.00	EUR 103.00	EUR 118.00	EUR 137.00	EUR 170.00
300 x 300 mm	EUR 108.00	EUR 119.00	EUR 143.00	EUR 174.00	EUR 222.00

**Coil**

**Web Code**

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

Width **305mm**

Length	Quantity	
	1 Reel	
1 m	EUR 141.00	
2 m	EUR 159.00	
5 m	EUR 196.00	
10 m	EUR 244.00	
20 m	EUR 391.00	

**Discs**

**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 discs	20 discs	50 discs
4 mm	EUR 177.00	EUR 195.00	EUR 240.00
6 mm	EUR 177.00	EUR 196.00	EUR 241.00
8 mm	EUR 177.00	EUR 196.00	EUR 242.00
10 mm	EUR 178.00	EUR 197.00	EUR 243.00
15 mm	EUR 179.00	EUR 199.00	EUR 246.00
25 mm	EUR 182.00	EUR 202.00	EUR 251.00
50 mm	EUR 188.00	EUR 211.00	EUR 265.00

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

**AL000603**

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

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

**Discs**

**Web Code**

358-013-553  
 679-774-663

Diameter	Quantity			
	1 discs	2 discs	5 discs	10 discs
7 mm	EUR 207.00	EUR 222.00	EUR 257.00	EUR 305.00
19 mm	EUR 247.00			

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	EUR 86.50	EUR 89.00	EUR 95.00	EUR 105.00	EUR 122.00
50 x 50 mm	EUR 89.00	EUR 92.00	EUR 100.00	EUR 112.00	EUR 132.00
100 x 100 mm	EUR 93.00	EUR 98.50	EUR 110.00	EUR 125.00	EUR 152.00
150 x 150 mm	EUR 97.50	EUR 105.00	EUR 120.00	EUR 139.00	EUR 171.00
200 x 300 mm	EUR 106.00	EUR 116.00	EUR 139.00	EUR 166.00	EUR 209.00

**Discs**

**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 discs	20 discs	50 discs
4 mm	EUR 173.00	EUR 188.00	EUR 222.00
6 mm	EUR 174.00	EUR 189.00	EUR 223.00
8 mm	EUR 174.00	EUR 190.00	EUR 224.00
10 mm	EUR 175.00	EUR 191.00	EUR 226.00
15 mm	EUR 176.00	EUR 193.00	EUR 229.00
25 mm	EUR 179.00	EUR 197.00	EUR 235.00
50 mm	EUR 186.00	EUR 207.00	EUR 251.00

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

**Aluminium**

**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	EUR 86.50	EUR 89.00	EUR 95.00	EUR 105.00	EUR 122.00
50 x 50 mm	EUR 89.00	EUR 92.00	EUR 100.00	EUR 112.00	EUR 132.00
100 x 100 mm	EUR 93.00	EUR 98.50	EUR 110.00	EUR 125.00	EUR 152.00
150 x 150 mm	EUR 97.50	EUR 105.00	EUR 120.00	EUR 139.00	EUR 171.00
300 x 300 mm	EUR 111.00	EUR 123.00	EUR 150.00	EUR 181.00	EUR 231.00

**Coil**

**Web Code**

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

Length	Quantity	
	1 Reel	
1 m	EUR 147.00	
2 m	EUR 168.00	
5 m	EUR 210.00	
10 m	EUR 291.00	
20 m	EUR 484.00	

**Discs**

**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 discs	20 discs	50 discs
4 mm	EUR 173.00	EUR 188.00	EUR 222.00
6 mm	EUR 174.00	EUR 189.00	EUR 223.00
8 mm	EUR 174.00	EUR 190.00	EUR 224.00
10 mm	EUR 175.00	EUR 191.00	EUR 226.00
15 mm	EUR 176.00	EUR 193.00	EUR 229.00
25 mm	EUR 179.00	EUR 197.00	EUR 235.00
50 mm	EUR 186.00	EUR 207.00	EUR 251.00

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	EUR 86.50	EUR 89.00	EUR 95.00	EUR 105.00	EUR 122.00
50 x 50 mm	EUR 89.00	EUR 92.00	EUR 100.00	EUR 112.00	EUR 132.00
100 x 100 mm	EUR 93.00	EUR 98.50	EUR 110.00	EUR 125.00	EUR 152.00
150 x 150 mm	EUR 97.50	EUR 105.00	EUR 120.00	EUR 139.00	EUR 171.00
300 x 300 mm	EUR 111.00	EUR 123.00	EUR 150.00	EUR 181.00	EUR 231.00

**Coil**

**Web Code**

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

Length	Quantity	
	1 Reel	
1 m	EUR 147.00	
2 m	EUR 168.00	
5 m	EUR 210.00	
10 m	EUR 291.00	
20 m	EUR 484.00	

**Discs**

**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 discs	20 discs	50 discs
4 mm	EUR 173.00	EUR 188.00	EUR 222.00
6 mm	EUR 174.00	EUR 189.00	EUR 223.00
8 mm	EUR 174.00	EUR 190.00	EUR 224.00
10 mm	EUR 175.00	EUR 191.00	EUR 226.00
15 mm	EUR 176.00	EUR 193.00	EUR 229.00
25 mm	EUR 179.00	EUR 197.00	EUR 235.00
50 mm	EUR 186.00	EUR 207.00	EUR 251.00

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	EUR 123.00	EUR 140.00	EUR 181.00	EUR 235.00	EUR 300.00
50 x 50 mm	EUR 153.00	EUR 183.00	EUR 248.00	EUR 329.00	EUR 434.00
100 x 100 mm	EUR 213.00	EUR 267.00	EUR 381.00	EUR 518.00	
150 x 150 mm	EUR 272.00	EUR 352.00	EUR 524.00		
300 x 300 mm	EUR 452.00	EUR 755.00			

**Coil**

**Web Code**

861-318-856

Length	Quantity	
	1 Reel	
0.5 m	EUR 696.00	

**Discs**

**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 discs	20 discs	50 discs
4 mm	EUR 230.00	EUR 262.00	EUR 353.00
6 mm	EUR 237.00	EUR 273.00	EUR 370.00
8 mm	EUR 245.00	EUR 284.00	EUR 387.00
10 mm	EUR 253.00	EUR 294.00	EUR 404.00
15 mm	EUR 271.00	EUR 321.00	EUR 447.00
25 mm	EUR 309.00	EUR 375.00	EUR 532.00
50 mm	EUR 405.00	EUR 510.00	

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.

## Aluminium

### 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	EUR 164.00
1 m	EUR 186.00
2 m	EUR 217.00
5 m	EUR 311.00
10 m	EUR 507.00

**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	EUR 87.00	EUR 89.50	EUR 96.00	EUR 106.00	EUR 124.00
50 x 50 mm	EUR 89.50	EUR 93.00	EUR 102.00	EUR 114.00	EUR 136.00
100 x 100 mm	EUR 95.00	EUR 101.00	EUR 114.00	EUR 131.00	EUR 159.00
150 x 150 mm	EUR 100.00	EUR 108.00	EUR 125.00	EUR 147.00	EUR 182.00
300 x 300 mm	EUR 116.00	EUR 130.00	EUR 160.00	EUR 197.00	EUR 265.00

#### 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	EUR 180.00
2 m	EUR 214.00
5 m	EUR 361.00
10 m	EUR 624.00
20 m	EUR 1150.00

#### Discs

**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 discs	20 discs	50 discs
4 mm	EUR 173.00	EUR 189.00	EUR 222.00
6 mm	EUR 174.00	EUR 190.00	EUR 224.00
8 mm	EUR 175.00	EUR 191.00	EUR 225.00
10 mm	EUR 175.00	EUR 191.00	EUR 227.00
15 mm	EUR 177.00	EUR 194.00	EUR 230.00
25 mm	EUR 180.00	EUR 199.00	EUR 238.00
50 mm	EUR 189.00	EUR 210.00	EUR 256.00

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	EUR 124.00	EUR 142.00	EUR 184.00	EUR 239.00	EUR 306.00
50 x 50 mm	EUR 155.00	EUR 187.00	EUR 254.00	EUR 338.00	EUR 446.00
100 x 100 mm	EUR 218.00	EUR 275.00	EUR 394.00	EUR 539.00	
150 x 150 mm	EUR 281.00	EUR 364.00	EUR 563.00		
300 x 300 mm	EUR 468.00	EUR 816.00			

#### Coil

**Web Code**  
 104-784-591

**Width 300mm**

Length	1 Reel
0.5 m	EUR 738.00

#### Discs

**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 discs	20 discs	50 discs
4 mm	EUR 230.00	EUR 263.00	EUR 355.00
6 mm	EUR 238.00	EUR 274.00	EUR 373.00
8 mm	EUR 246.00	EUR 286.00	EUR 390.00
10 mm	EUR 254.00	EUR 297.00	EUR 408.00
15 mm	EUR 274.00	EUR 325.00	EUR 453.00
25 mm	EUR 314.00	EUR 381.00	EUR 542.00
50 mm	EUR 414.00	EUR 523.00	

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.

## Aluminium

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			EUR 99.50	EUR 115.00	EUR 129.00
50 x 50 mm	EUR 78.00	EUR 85.00	EUR 105.00	EUR 123.00	EUR 140.00
100 x 100 mm	EUR 83.00	EUR 92.00	EUR 116.00	EUR 139.00	EUR 162.00
150 x 150 mm	EUR 88.00	EUR 99.00	EUR 127.00	EUR 154.00	EUR 184.00
300 x 300 mm	EUR 103.00	EUR 120.00	EUR 160.00	EUR 201.00	EUR 255.00

#### Coil

##### Web Code

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

Width 305mm

##### Length 1 Reel

1 m EUR 138.00  
 2 m EUR 161.00  
 5 m EUR 208.00  
 10 m EUR 322.00  
 20 m EUR 561.00

#### Discs

##### 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 discs	20 discs	50 discs
4 mm	EUR 183.00	EUR 194.00	EUR 227.00
6 mm	EUR 184.00	EUR 195.00	EUR 228.00
8 mm	EUR 185.00	EUR 196.00	EUR 230.00
10 mm	EUR 185.00	EUR 197.00	EUR 231.00
15 mm	EUR 187.00	EUR 199.00	EUR 234.00
25 mm	EUR 190.00	EUR 204.00	EUR 241.00
50 mm	EUR 198.00	EUR 215.00	EUR 259.00

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			EUR 99.50	EUR 115.00	EUR 129.00
50 x 50 mm	EUR 78.00	EUR 85.00	EUR 105.00	EUR 123.00	EUR 140.00
100 x 100 mm	EUR 83.00	EUR 92.00	EUR 116.00	EUR 139.00	EUR 162.00
150 x 150 mm	EUR 88.00	EUR 99.00	EUR 127.00	EUR 154.00	EUR 184.00
300 x 300 mm	EUR 103.00	EUR 120.00	EUR 160.00	EUR 201.00	EUR 255.00

#### Coil

##### Web Code

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

Width 305mm

##### Length 1 Reel

1 m EUR 138.00  
 2 m EUR 161.00  
 5 m EUR 208.00  
 10 m EUR 322.00  
 20 m EUR 561.00

#### Discs

##### 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 discs	20 discs	50 discs
4 mm	EUR 183.00	EUR 194.00	EUR 227.00
6 mm	EUR 184.00	EUR 195.00	EUR 228.00
8 mm	EUR 185.00	EUR 196.00	EUR 230.00
10 mm	EUR 185.00	EUR 197.00	EUR 231.00
15 mm	EUR 187.00	EUR 199.00	EUR 234.00
25 mm	EUR 190.00	EUR 204.00	EUR 241.00
50 mm	EUR 198.00	EUR 215.00	EUR 259.00

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	EUR 87.00	EUR 90.00	EUR 96.50	EUR 106.00	EUR 125.00
50 x 50 mm	EUR 90.00	EUR 93.50	EUR 103.00	EUR 115.00	EUR 137.00
100 x 100 mm	EUR 95.50	EUR 102.00	EUR 115.00	EUR 133.00	EUR 162.00
150 x 150 mm	EUR 101.00	EUR 110.00	EUR 128.00	EUR 151.00	EUR 187.00
200 x 300 mm	EUR 112.00	EUR 125.00	EUR 151.00	EUR 184.00	EUR 235.00

#### Discs

##### 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 discs	20 discs	50 discs
4 mm	EUR 174.00	EUR 189.00	EUR 222.00
6 mm	EUR 174.00	EUR 190.00	EUR 224.00
8 mm	EUR 175.00	EUR 191.00	EUR 226.00
10 mm	EUR 176.00	EUR 192.00	EUR 227.00
15 mm	EUR 177.00	EUR 194.00	EUR 231.00
25 mm	EUR 181.00	EUR 199.00	EUR 239.00
50 mm	EUR 190.00	EUR 212.00	EUR 259.00

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

Metal – Aluminium

**Aluminium**

**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	EUR 87.00	EUR 90.00	EUR 96.50	EUR 106.00	EUR 125.00
50 x 50 mm	EUR 90.00	EUR 93.50	EUR 103.00	EUR 115.00	EUR 137.00
100 x 100 mm	EUR 95.50	EUR 102.00	EUR 115.00	EUR 133.00	EUR 162.00
150 x 150 mm	EUR 101.00	EUR 110.00	EUR 128.00	EUR 151.00	EUR 187.00
300 x 300 mm	EUR 118.00	EUR 133.00	EUR 165.00	EUR 203.00	EUR 287.00

**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	EUR 142.00	
1 m	EUR 160.00	
2 m	EUR 186.00	
5 m	EUR 249.00	
10 m	EUR 401.00	

**Discs**

**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 discs	20 discs	50 discs
4 mm	EUR 174.00	EUR 189.00	EUR 222.00
6 mm	EUR 174.00	EUR 190.00	EUR 224.00
8 mm	EUR 175.00	EUR 191.00	EUR 226.00
10 mm	EUR 176.00	EUR 192.00	EUR 227.00
15 mm	EUR 177.00	EUR 194.00	EUR 231.00
25 mm	EUR 181.00	EUR 199.00	EUR 239.00
50 mm	EUR 190.00	EUR 212.00	EUR 259.00

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	EUR 127.00	EUR 146.00	EUR 187.00	EUR 232.00
50 x 50 mm	EUR 162.00	EUR 195.00	EUR 265.00	EUR 343.00
100 x 100 mm	EUR 232.00	EUR 294.00	EUR 422.00	
150 x 150 mm	EUR 302.00	EUR 394.00		
300 x 300 mm	EUR 562.00			

**Coil**

**Web Code**

395-432-624  
429-082-943

Length	Quantity	
	1 Reel	
0.5 m	EUR 492.00	
1 m	EUR 897.00	

**Discs**

**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 discs	20 discs	50 discs
4 mm	EUR 213.00	EUR 234.00	EUR 288.00
6 mm	EUR 222.00	EUR 246.00	EUR 308.00
8 mm	EUR 231.00	EUR 259.00	EUR 328.00
10 mm	EUR 240.00	EUR 272.00	EUR 348.00
15 mm	EUR 262.00	EUR 303.00	EUR 398.00
25 mm	EUR 307.00	EUR 367.00	EUR 499.00
50 mm	EUR 420.00	EUR 527.00	

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	EUR 87.50	EUR 90.50	EUR 97.50	EUR 107.00	EUR 126.00
50 x 50 mm	EUR 90.50	EUR 94.50	EUR 104.00	EUR 117.00	EUR 140.00
100 x 100 mm	EUR 97.00	EUR 104.00	EUR 118.00	EUR 137.00	EUR 168.00
150 x 150 mm	EUR 103.00	EUR 112.00	EUR 132.00	EUR 157.00	EUR 197.00
300 x 300 mm	EUR 122.00	EUR 139.00	EUR 175.00	EUR 217.00	EUR 334.00

**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	EUR 147.00	
1 m	EUR 168.00	
2 m	EUR 197.00	
5 m	EUR 289.00	
10 m	EUR 480.00	

**Discs**

**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 discs	20 discs	50 discs
4 mm	EUR 174.00	EUR 189.00	EUR 223.00
6 mm	EUR 175.00	EUR 190.00	EUR 225.00
8 mm	EUR 175.00	EUR 191.00	EUR 226.00
10 mm	EUR 176.00	EUR 192.00	EUR 228.00
15 mm	EUR 178.00	EUR 195.00	EUR 233.00
25 mm	EUR 182.00	EUR 201.00	EUR 242.00
50 mm	EUR 192.00	EUR 215.00	EUR 264.00

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

## Aluminium

Al



### Foil

**AL000648**

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

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

**Discs**

**Web Code**  
 012-074-159

Diameter	Quantity			
	10 discs	20 discs	50 discs	100 discs
33 mm	EUR 179.00	EUR 199.00	EUR 244.00	EUR 313.00

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	EUR 108.00	EUR 122.00	EUR 151.00	EUR 186.00	EUR 243.00
100 x 100 mm	EUR 138.00	EUR 164.00	EUR 221.00		

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

**AL000651**

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

High Purity ..... **99.99%**  
 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	EUR 170.00	EUR 196.00	EUR 255.00	EUR 320.00
50 x 50 mm	EUR 218.00	EUR 265.00	EUR 364.00	
100 x 100 mm	EUR 316.00	EUR 403.00		

**Discs**

**Web Code**  
 535-696-939

Diameter	Quantity					
	1 discs	2 discs	3 discs	5 discs	10 discs	20 discs
22 mm	EUR 239.00	EUR 263.00	EUR 283.00	EUR 317.00	EUR 377.00	EUR 461.00

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 ..... **99.99%**

**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	EUR 130.00	EUR 150.00	EUR 194.00	EUR 242.00
50 x 50 mm	EUR 168.00	EUR 204.00	EUR 280.00	EUR 363.00
100 x 100 mm	EUR 245.00	EUR 313.00	EUR 451.00	
150 x 150 mm	EUR 321.00	EUR 421.00		
300 x 300 mm	EUR 610.00			

**Discs**

**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 discs	20 discs	50 discs
4 mm	EUR 215.00	EUR 236.00	EUR 291.00
6 mm	EUR 225.00	EUR 250.00	EUR 313.00
8 mm	EUR 234.00	EUR 264.00	EUR 335.00
10 mm	EUR 244.00	EUR 278.00	EUR 357.00
15 mm	EUR 268.00	EUR 312.00	EUR 412.00
25 mm	EUR 317.00	EUR 381.00	EUR 522.00
50 mm	EUR 440.00	EUR 556.00	

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	EUR 90.00	EUR 96.50	EUR 111.00	EUR 130.00	EUR 160.00
150 x 150 mm	EUR 96.00	EUR 105.00	EUR 124.00	EUR 149.00	
300 x 300 mm	EUR 114.00	EUR 131.00	EUR 165.00		
500 x 500 mm	EUR 138.00	EUR 165.00			

**Discs**

**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 discs	20 discs	50 discs
4 mm	EUR 167.00	EUR 183.00	EUR 219.00
6 mm	EUR 168.00	EUR 184.00	EUR 221.00
8 mm	EUR 169.00	EUR 185.00	EUR 222.00
10 mm	EUR 170.00	EUR 186.00	EUR 224.00
15 mm	EUR 172.00	EUR 189.00	EUR 228.00
25 mm	EUR 176.00	EUR 194.00	EUR 237.00
50 mm	EUR 185.00	EUR 208.00	EUR 258.00

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

Metal - Aluminium



## Aluminium

### 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	EUR 83.00	EUR 87.00	EUR 95.50	EUR 108.00	EUR 130.00
50 x 50 mm	EUR 88.50	EUR 94.50	EUR 108.00	EUR 125.00	EUR 154.00
100 x 100 mm	EUR 99.00	EUR 109.00	EUR 131.00	EUR 159.00	EUR 201.00
150 x 150 mm	EUR 110.00	EUR 125.00	EUR 155.00	EUR 192.00	
300 x 300 mm	EUR 142.00	EUR 170.00	EUR 243.00		

#### Discs

##### 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 discs	20 discs	50 discs
4 mm	EUR 169.00	EUR 185.00	EUR 219.00
6 mm	EUR 170.00	EUR 187.00	EUR 222.00
8 mm	EUR 171.00	EUR 188.00	EUR 225.00
10 mm	EUR 173.00	EUR 190.00	EUR 228.00
15 mm	EUR 176.00	EUR 195.00	EUR 236.00
25 mm	EUR 183.00	EUR 205.00	EUR 251.00
50 mm	EUR 200.00	EUR 229.00	EUR 289.00

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

**AL000701**

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

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

#### Discs

##### Web Code

819-333-412

Diameter	Quantity			
	10 discs	20 discs	50 discs	100 discs
33 mm	EUR 186.00	EUR 208.00	EUR 254.00	EUR 324.00

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	EUR 136.00	EUR 160.00	EUR 211.00	EUR 269.00
50 x 50 mm	EUR 180.00	EUR 221.00	EUR 308.00	EUR 407.00
100 x 100 mm	EUR 267.00	EUR 344.00	EUR 502.00	
150 x 150 mm	EUR 353.00	EUR 467.00		
300 x 300 mm	EUR 741.00			

#### Discs

##### 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 discs	20 discs	50 discs
4 mm	EUR 229.00	EUR 264.00	EUR 361.00
6 mm	EUR 240.00	EUR 280.00	EUR 386.00
8 mm	EUR 251.00	EUR 295.00	EUR 411.00
10 mm	EUR 262.00	EUR 311.00	EUR 436.00
15 mm	EUR 290.00	EUR 350.00	EUR 498.00
25 mm	EUR 345.00	EUR 429.00	EUR 623.00
50 mm	EUR 485.00	EUR 628.00	

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	EUR 81.50	EUR 84.00	EUR 91.50	EUR 102.00	EUR 121.00
50 x 50 mm	EUR 84.50	EUR 89.00	EUR 99.00	EUR 113.00	EUR 137.00
100 x 100 mm	EUR 91.50	EUR 98.50	EUR 114.00	EUR 135.00	EUR 167.00
150 x 150 mm	EUR 98.50	EUR 108.00	EUR 130.00	EUR 156.00	EUR 198.00
300 x 300 mm	EUR 119.00	EUR 137.00	EUR 176.00	EUR 223.00	EUR 369.00

#### Discs

##### 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 discs	20 discs	50 discs
4 mm	EUR 168.00	EUR 183.00	EUR 217.00
6 mm	EUR 168.00	EUR 184.00	EUR 219.00
8 mm	EUR 169.00	EUR 186.00	EUR 221.00
10 mm	EUR 170.00	EUR 187.00	EUR 223.00
15 mm	EUR 172.00	EUR 190.00	EUR 228.00
25 mm	EUR 177.00	EUR 196.00	EUR 237.00
50 mm	EUR 188.00	EUR 211.00	EUR 262.00

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

**Aluminium**

**Al**



**Foil**

**AL000720**

Thickness ..... **1.5mm**  
 Temper ..... **As rolled**

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

**Size**

**Web Code**

656-970-818  
 121-362-498  
 170-304-166  
 288-019-867  
 002-482-629

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 157.00	EUR 189.00	EUR 257.00	EUR 335.00
50 x 50 mm	EUR 221.00	EUR 279.00	EUR 400.00	EUR 537.00
100 x 100 mm	EUR 349.00	EUR 460.00	EUR 686.00	
150 x 150 mm	EUR 477.00	EUR 641.00		
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**  
 Temper ..... **Half hard**

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

**Size**

**Web Code**

973-735-265  
 697-185-177  
 087-840-635  
 724-459-670  
 919-547-837

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 82.00	EUR 85.00	EUR 92.50	EUR 104.00	EUR 124.00
50 x 50 mm	EUR 85.50	EUR 90.50	EUR 101.00	EUR 116.00	EUR 141.00
100 x 100 mm	EUR 93.50	EUR 102.00	EUR 119.00	EUR 141.00	EUR 176.00
150 x 150 mm	EUR 101.00	EUR 113.00	EUR 136.00	EUR 166.00	EUR 212.00
300 x 300 mm	EUR 125.00	EUR 146.00	EUR 189.00	EUR 264.00	

**Discs**

**Web Code**

471-432-568  
 845-968-770  
 572-697-952  
 614-880-630  
 114-474-898  
 579-523-890  
 907-130-008

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	EUR 168.00	EUR 184.00	EUR 217.00
6 mm	EUR 169.00	EUR 185.00	EUR 220.00
8 mm	EUR 170.00	EUR 186.00	EUR 222.00
10 mm	EUR 171.00	EUR 188.00	EUR 224.00
15 mm	EUR 173.00	EUR 191.00	EUR 230.00
25 mm	EUR 178.00	EUR 198.00	EUR 241.00
50 mm	EUR 191.00	EUR 216.00	EUR 269.00

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

**AL000731**

Thickness ..... **1.5mm**  
 Temper ..... **Half hard**

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

Condition ..... **Polished on both sides**

**Size**

**Web Code**

455-707-087  
 824-072-589  
 844-014-230

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
50 x 50 mm	EUR 140.00	EUR 158.00	EUR 198.00	EUR 251.00
100 x 100 mm	EUR 169.00	EUR 199.00	EUR 263.00	
200 x 200 mm	EUR 228.00	EUR 281.00		

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

**AL000760**

Thickness ..... **2.0mm**  
 Temper ..... **As rolled**

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

**Size**

**Web Code**

078-596-278  
 824-528-101  
 066-014-854  
 251-859-775  
 482-469-253

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 167.00	EUR 204.00	EUR 281.00	EUR 368.00	EUR 492.00
50 x 50 mm	EUR 242.00	EUR 309.00	EUR 447.00	EUR 604.00	
100 x 100 mm	EUR 391.00	EUR 520.00	POA		
150 x 150 mm	EUR 540.00	EUR 733.00			
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**  
 Temper ..... **As rolled**

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

Condition ..... **Polished on both sides**

**Size**

**Web Code**

713-727-294

Size	Quantity		
	1pc	2pcs	5pcs
100 x 100 mm	EUR 496.00	EUR 668.00	EUR 1068.00

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**  
 Temper ..... **Half hard**

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

**Size**

**Web Code**

408-079-863  
 009-976-788  
 247-092-939  
 886-616-617  
 827-075-106

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 81.50	EUR 84.50	EUR 92.50	EUR 103.00	EUR 123.00
50 x 50 mm	EUR 85.50	EUR 90.00	EUR 101.00	EUR 116.00	EUR 141.00
100 x 100 mm	EUR 93.50	EUR 101.00	EUR 119.00	EUR 141.00	EUR 176.00
150 x 150 mm	EUR 101.00	EUR 113.00	EUR 137.00	EUR 166.00	EUR 212.00
300 x 300 mm	EUR 125.00	EUR 146.00	EUR 190.00	EUR 267.00	

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

**Metal – Aluminium**

## Aluminium

### Al



## Foil

**AL000770**

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

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

Size	Quantity
<b>Web Code</b>	<b>Size</b>
125-596-084	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>	<b>Size</b>
216-937-532	150 x 150 mm
848-610-293	300 x 300 mm
853-418-653	500 x 500 mm
410-642-297	1000 x 1000 mm
	<b>1pc</b>
	EUR 107.00
	<b>2pcs</b>
	EUR 120.00
	<b>5pcs</b>
	EUR 149.00
	<b>10pcs</b>
	EUR 183.00
	EUR 136.00
	EUR 161.00
	EUR 216.00
	EUR 175.00
	EUR 226.00
	EUR 372.00

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>	<b>Size</b>
005-449-571	300 x 300 mm
	<b>1pc</b>
	EUR 186.00
	<b>2pcs</b>
	EUR 261.00
	<b>3pcs</b>
	EUR 354.00

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>	<b>Size</b>
958-158-513	100 x 100 mm
998-385-460	300 x 300 mm
	<b>1pc</b>
	EUR 144.00
	<b>2pcs</b>
	EUR 187.00
	<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>	<b>Size</b>
585-770-243	102 x 102 mm
699-503-917	150 x 150 mm
437-991-811	300 x 300 mm
	<b>1pc</b>
	POA
	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>	<b>Size</b>
993-791-867	100 x 100 mm
043-944-159	200 x 200 mm
	<b>1pc</b>
	EUR 150.00
	<b>2pcs</b>
	EUR 204.00
	EUR 288.00

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>	<b>Size</b>
398-998-391	100 x 100 mm
022-125-802	150 x 150 mm
286-389-735	300 x 300 mm
	<b>1pc</b>
	POA
	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>	<b>Size</b>
355-105-870	127 x 444 mm
	<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.

## Aluminium

### Al



## Foil

**AL000790**

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

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

**Size**

**Web Code**  
 062-764-389  
 845-549-835

**Size**  
 150 x 150 mm  
 300 x 300 mm

**Quantity**

**1pc**  
 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%**

**Size**

**Web Code**  
 554-691-669

**Size**  
 146 x 464 mm

**Quantity**

**1pc**  
 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%**

**Size**

**Web Code**  
 885-099-542

**Size**  
 200 x 200 mm

**Quantity**

**1pc**  
 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%**

**Size**

**Web Code**  
 270-752-696

**Size**  
 200 x 200 mm

**Quantity**

**1pc**  
 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.

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Aluminium (Al) 20

### F

Foil .. Aluminium 20

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