

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 Titanium

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Introduction

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.

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 Catalogue 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 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

Ceramics: ANSI B18.6.7M-1985



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

Ceramics: ANSI B18.2.4.1M-1979
 (R1995)



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

Ceramics:	see item
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Product Descriptions



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-cm³.s⁻¹.

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.

Order information

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.

Order information

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

Order information

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 or www.goodfellowusa.com.

Company Details

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

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USA
A Pennsylvania corporation
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Goodfellow (Shanghai) Trading Co., Ltd

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SHANGHAI
200070
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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

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- 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,

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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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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

Titanium

Ti

Titanium was discovered by Rev. William Gregor in 1791 in Creed, Cornwall, England and, independently, by M.H. Klaproth in 1795 in Berlin, Germany.

Titanium is a hard, lustrous, silvery metal which is obtained by magnesium or calcium reduction of the tetrachloride. It is a relatively abundant element, there being 5600 ppm in the earth's crust. It forms a protective oxide coating and, hence, resists corrosion, although powdered metal burns in air. Titanium tends to be inert at low temperatures but will combine with a variety of reagents at elevated temperatures.

Titanium and its alloys are characterised by their lightness, strength and corrosion resistance and are used widely in aerospace applications. In addition, these properties also make the material suitable for medical applications (e.g. replacement hip joints). Titanium dioxide, TiO₂ is used as a white pigment in paints and plastics as it provides great opacity. The same material is also used in the manufacture of heat resisting and durable glass, the TiO₂ replacing certain proportions of the soda. Titanium carbide is used to manufacture cemented carbides.

Atomic Properties		Physical Properties		
Atomic number	22	Boiling point	3287 C	
Atomic radius - Goldschmidt	0.147 nm	Density @20C	4.5 g cm ⁻³	
Atomic weight	47.88 amu	Melting point	1660 C	
Crystal structure	Hexagonal close packed	Electrical Properties		
Electronic structure	Ar 3d ² 4s ²	Electrical resistivity @20C	54 μOhmcm	
Photo-electric work function	4.1 eV	Temperature coefficient @0-100C	0.0038 K ⁻¹	
Thermal neutron absorption cross-section	6.1 Barns	Superconductivity critical temperature	0.40 K	
Valences shown	2, 3, 4	Thermal Properties		
Natural isotope distribution		Coefficient of thermal expansion @0-100C	8.9 x10 ⁻⁶ K ⁻¹	
	Mass No.	%	Latent heat of evaporation	
	46	8.0	8893 J g ⁻¹	
	47	7.5	Latent heat of fusion	
	48	73.7	365 J g ⁻¹	
	49	5.5	Specific heat @25C	
	50	5.3	523 J K ⁻¹ kg ⁻¹	
Ionisation potential		Thermal conductivity @0-100C	21.9 W m ⁻¹ K ⁻¹	
	No.	eV	Mechanical Properties	
	1	6.82	Material condition	Annealed Polycrystalline
	2	13.6	Bulk modulus	108.4 GPa
	3	27.5	Hardness - Vickers	60
	4	43.3	Izod toughness	61 J m ⁻¹
	5	99.2	Poisson's ratio	0.361
	6	119	Tensile modulus	120.2 GPa
			Tensile strength	230-460 MPa
			Yield strength	140-250 MPa



Microfoil

CONTRACT COATING of customers' own components or assemblies is available to special order.

TI004500	Thinness.....	0.1μm	Area density.....	42.8μg.cm⁻²	
	Purity.....	99.6+%	Support.....	Permanent Mylar 3.5μm	
Quantity					
Web Code	Disc diam.	1 disc	2discs	5discs	10discs
059-252-810	10 mm	USD 381.00	USD 517.00	USD 926.00	USD 1472.00
825-798-434	25 mm	USD 563.00	USD 790.00	USD 1472.00	USD 2381.00

Typical Analysis : Starting Material : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.
 This item is normally made to order for delivery within 4-5 weeks.

TI004600	Thinness.....	0.25μm	Area density.....	112.6μg.cm⁻²	
	Purity.....	99.6+%	Support.....	Permanent Mylar 3.5μm	
Quantity					
Web Code	Disc diam.	1 disc	2discs	5discs	10discs
525-512-225	10 mm	USD 422.00	USD 579.00	USD 1049.00	USD 1677.00
129-297-443	25 mm	USD 631.00	USD 892.00	USD 1677.00	USD 2722.00

Typical Analysis : Starting Material : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.
 This item is normally made to order for delivery within 4-5 weeks.

TI004700	Thinness.....	0.5μm	Area density.....	225.4μg.cm⁻²	
	Purity.....	99.6+%	Support.....	Permanent Mylar 3.5μm	
Quantity					
Web Code	Disc diam.	1 disc	2discs	5discs	10discs
139-599-398	10 mm	USD 449.00	USD 620.00	USD 1131.00	USD 1813.00
239-166-185	25 mm	USD 676.00	USD 961.00	USD 1813.00	USD 2950.00

Typical Analysis : Starting Material : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.
 This item is normally made to order for delivery within 4-5 weeks.

TI004850	Thinness.....	1.0μm	Area density.....	429μg.cm⁻²	
	Purity.....	99.6+%	Support.....	Permanent Mylar 3.5μm	
Quantity					
Web Code	Disc diam.	1 disc	2discs	5discs	10discs
060-822-869	10 mm	USD 517.00	USD 722.00	USD 1336.00	USD 2154.00
356-832-183	25 mm	USD 790.00	USD 1131.00	USD 2154.00	USD 3518.00

Typical Analysis : Starting Material : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.
 This item is normally made to order for delivery within 4-5 weeks.

Titanium

Ti



Foil

TI000205 Thickness **0.001mm** High Purity **99.99+%**
 Temper **As rolled**

Sizes LT	Quantity		
Web Code	Size	1pc	2pcs 5pcs
912-066-045	25 x 25 mm	USD 1036.00	USD 1424.00 USD 2216.00
086-830-273	50 x 50 mm	USD 1923.00	USD 2679.00

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI000090 Thickness **0.002mm** Purity **99.6+%**

Sizes LT	Quantity		
Web Code	Size	1pc	2pcs 5pcs
079-450-947	25 x 25 mm	USD 654.00	USD 871.00 USD 1313.00
882-226-421	50 x 50 mm	USD 1147.00	USD 1567.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000206 Thickness **0.002mm** High Purity **99.99+%**
 Temper **As rolled**

Sizes LT	Quantity		
Web Code	Size	1pc	2pcs 5pcs
045-468-855	25 x 25 mm	USD 942.00	USD 1292.00 USD 2007.00
645-780-331	50 x 50 mm	USD 1736.00	USD 2414.00

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI000100 Thickness **0.0025mm** Purity **99.6+%**

Sizes LT	Quantity		
Web Code	Size	1pc	2pcs 5pcs
688-203-858	25 x 25 mm	USD 629.00	USD 835.00 USD 1257.00
060-778-536	50 x 50 mm	USD 1096.00	USD 1496.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000110 Thickness **0.003mm** Purity **99.6+%**

Sizes LT	Quantity		
Web Code	Size	1pc	2pcs 5pcs
536-162-812	25 x 25 mm	USD 605.00	USD 801.00 USD 1203.00
825-766-602	50 x 50 mm	USD 1049.00	USD 1429.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000121 Thickness **0.004mm** Purity **99.6+%**

NLT Sizes	Quantity		
Web Code	Size	1pc	2pcs 5pcs
104-119-736	25 x 25 mm	USD 557.00	USD 734.00 USD 1097.00
292-868-505	50 x 50 mm	USD 953.00	USD 1294.00
224-731-655	100 x 100 mm	USD 2166.00	

Sizes LT	Quantity		
Web Code	Size	1pc	2pcs 5pcs
785-692-968	25 x 25 mm	USD 669.00	USD 881.00 USD 1316.00
002-536-064	50 x 50 mm	USD 1430.00	USD 1941.00

Discs	Quantity		
Web Code	Diameter	10 discs	20 discs 50 discs
132-291-866	4 mm	USD 573.00	USD 712.00 USD 1035.00
536-487-144	6 mm	USD 685.00	USD 872.00 USD 1292.00
060-894-747	8 mm	USD 798.00	USD 1033.00 USD 1552.00
611-840-001	10 mm	USD 912.00	USD 1196.00 USD 1817.00
480-006-974	15 mm	USD 1191.00	USD 1593.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

Metal – Titanium

Titanium

Ti



Foil

TI000210

Thickness **0.005mm**

Purity **99.6+%**

NLT Sizes

Web Code

166-536-961
 220-683-347
 450-972-306

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 426.00	USD 527.00	USD 730.00
50 x 50 mm	USD 659.00	USD 855.00	
100 x 100 mm	USD 1485.00		

Sizes LT

Web Code

270-344-449

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 469.00	USD 579.00	USD 803.00

Discs

Web Code

408-527-282
 065-900-770
 237-599-389
 699-918-029
 489-758-450

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 508.00	USD 617.00	USD 827.00
6 mm	USD 580.00	USD 720.00	USD 992.00
8 mm	USD 652.00	USD 824.00	USD 1160.00
10 mm	USD 725.00	USD 929.00	USD 1332.00
15 mm	USD 904.00	USD 1183.00	

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000208

Thickness **0.005mm**

High Purity **99.99+%**

Temper **As rolled**

NLT Sizes

Web Code

205-276-680
 055-111-473
 426-443-033

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 694.00	USD 960.00	USD 1573.00
50 x 50 mm	USD 1135.00	USD 1584.00	
100 x 100 mm	USD 2018.00		

Sizes LT

Web Code

501-822-204
 224-191-870

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 764.00	USD 1056.00	USD 1731.00
50 x 50 mm	USD 1419.00	USD 1980.00	

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI000140

Thickness **0.006mm**

Purity **99.6+%**

NLT Sizes

Web Code

148-886-945
 129-741-932
 517-667-132

Size	Quantity	
	1pc	2pcs
25 x 25 mm	USD 508.00	USD 665.00
50 x 50 mm	USD 855.00	USD 1155.00
100 x 100 mm	USD 2062.00	

Sizes LT

Web Code

410-260-256
 769-784-123

Size	Quantity	
	1pc	2pcs
25 x 25 mm	USD 559.00	USD 731.00
50 x 50 mm	USD 1069.00	USD 1444.00

Discs

Web Code

113-674-130
 209-268-740
 158-597-940
 824-740-947
 092-613-455

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 546.00	USD 673.00	USD 974.00
6 mm	USD 644.00	USD 813.00	USD 1200.00
8 mm	USD 743.00	USD 955.00	USD 1429.00
10 mm	USD 843.00	USD 1099.00	USD 1662.00
15 mm	USD 1088.00	USD 1447.00	

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000150

Thickness **0.007mm**

Purity **99.6+%**

NLT Sizes

Web Code

855-392-130
 185-053-464
 393-808-679
 115-593-372

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 505.00	USD 660.00	USD 980.00	USD 1398.00
50 x 50 mm	USD 849.00	USD 1146.00	USD 2543.00	
100 x 100 mm	USD 2027.00	USD 3905.00		
150 x 150 mm	USD 4359.00			

Sizes LT

Web Code

769-480-263
 397-971-951

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 555.00	USD 726.00	USD 1078.00	USD 1538.00
50 x 50 mm	USD 934.00	USD 1261.00	USD 2797.00	

Discs

Web Code

031-461-509
 932-699-089
 587-386-527
 423-317-228
 914-657-809
 332-230-147

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 544.00	USD 670.00	USD 970.00
6 mm	USD 641.00	USD 810.00	USD 1193.00
8 mm	USD 740.00	USD 950.00	USD 1420.00
10 mm	USD 839.00	USD 1092.00	USD 1651.00
15 mm	USD 1081.00	USD 1437.00	USD 2906.00
25 mm	USD 1657.00		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

Metal – Titanium

Titanium

Ti



Foil

TI000211

Thickness **0.008mm**
 Purity **99.6+%**

Coil width **104mm**

Coil

Web Code
 021-584-331
 659-926-525

Width 104mm

Quantity

Length 1 Reel
 0.2 m USD 1010.00
 0.3 m USD 1367.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000160

Thickness **0.008mm**

Purity **99.6+%**

NLT Sizes

Web Code
 410-264-638
 855-629-725
 566-804-320
 406-154-449

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 487.00	USD 634.00	USD 939.00	USD 1359.00
50 x 50 mm	USD 812.00	USD 1094.00	USD 2466.00	
100 x 100 mm	USD 1965.00	USD 3781.00		
150 x 150 mm	USD 4219.00			

Sizes LT

Web Code
 683-083-649
 984-569-898

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 535.00	USD 697.00	USD 1033.00	USD 1495.00
50 x 50 mm	USD 893.00	USD 1204.00	USD 2712.00	

Discs

Web Code
 890-279-724
 284-972-801
 621-609-045
 701-127-200
 640-900-870
 112-611-681

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 534.00	USD 656.00	USD 947.00
6 mm	USD 626.00	USD 788.00	USD 1158.00
8 mm	USD 719.00	USD 921.00	USD 1374.00
10 mm	USD 813.00	USD 1055.00	USD 1592.00
15 mm	USD 1043.00	USD 1382.00	USD 2827.00
25 mm	USD 1613.00	USD 2921.00	

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000170

Thickness **0.009mm**

Purity **99.6+%**

NLT Sizes

Web Code
 606-259-869
 470-380-247
 132-104-234
 669-276-069

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 470.00	USD 611.00	USD 903.00	USD 1331.00
50 x 50 mm	USD 779.00	USD 1053.00	USD 2410.00	
100 x 100 mm	USD 1920.00	USD 3692.00		
150 x 150 mm	USD 4119.00			

Sizes LT

Web Code
 921-913-726
 730-624-021

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 517.00	USD 672.00	USD 993.00	USD 1465.00
50 x 50 mm	USD 857.00	USD 1158.00	USD 2651.00	

Discs

Web Code
 808-704-520
 088-064-735
 008-097-487
 012-176-180
 522-019-326
 252-415-547

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 524.00	USD 643.00	USD 926.00
6 mm	USD 612.00	USD 768.00	USD 1127.00
8 mm	USD 701.00	USD 895.00	USD 1332.00
10 mm	USD 790.00	USD 1023.00	USD 1546.00
15 mm	USD 1008.00	USD 1333.00	USD 2770.00
25 mm	USD 1582.00	USD 2859.00	

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000213

Thickness **0.010mm**

Purity **99.6+%**

NLT Sizes

Web Code
 828-848-647
 518-098-674
 985-450-125

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 x 100 mm	USD 527.00	USD 671.00	USD 966.00	USD 1311.00	
150 x 150 mm	USD 691.00	USD 903.00	USD 1333.00		
200 x 200 mm	USD 855.00	USD 1135.00			

Sizes LT

Web Code
 373-084-615
 039-370-796
 269-444-548

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 281.00	USD 323.00	USD 415.00	USD 533.00	USD 724.00
50 x 50 mm	USD 363.00	USD 439.00	USD 599.00	USD 793.00	USD 1091.00
100 x 100 mm	USD 579.00	USD 738.00	USD 1062.00	USD 1443.00	

Coil

Web Code
 974-012-368
 829-667-312
 989-971-926
 766-205-510

Width 150mm

Quantity

Length 1 Reel
 0.2 m USD 809.00
 0.3 m USD 937.00
 0.5 m USD 1140.00
 1 m USD 1513.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

Titanium

Ti



Foil

TI000212

Thickness **0.01mm**
 Temper **As rolled**

High Purity **99.99+%**

NLT Sizes

Web Code
 098-397-513
 493-860-886

Size	Quantity		
	1pc	2pcs	5pcs
50 x 50 mm	USD 1117.00	USD 1539.00	
100 x 100 mm	USD 2085.00		

Sizes LT

Web Code
 174-909-779
 258-429-339
 923-125-799

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 633.00	USD 854.00	USD 1314.00
50 x 50 mm	USD 1228.00	USD 1693.00	
100 x 100 mm	USD 2606.00		

Discs

Web Code
 792-053-392
 006-670-870
 833-853-998
 231-747-483
 968-435-058
 054-381-677

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 687.00	USD 998.00	USD 1279.00
6 mm	USD 811.00	USD 1175.00	USD 1562.00
8 mm	USD 936.00	USD 1353.00	USD 1847.00
10 mm	USD 1061.00	USD 1532.00	USD 2136.00
15 mm	USD 1370.00	USD 1971.00	
25 mm	USD 1992.00		

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI000215

Thickness **0.012mm**

Purity **99.6+%**

NLT Sizes

Web Code
 020-471-715
 229-759-260

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 x 100 mm	USD 517.00	USD 658.00	USD 945.00	USD 1282.00	
200 x 200 mm	USD 836.00	USD 1109.00	USD 1658.00		

Sizes LT

Web Code
 042-393-568
 139-628-099
 107-841-890

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 278.00	USD 320.00	USD 410.00	USD 526.00	USD 714.00
50 x 50 mm	USD 358.00	USD 432.00	USD 588.00	USD 778.00	USD 1070.00
100 x 100 mm	USD 569.00	USD 724.00	USD 1039.00	USD 1410.00	

Coil

Web Code
 252-822-899
 602-855-739
 356-966-276
 620-776-860

Length	Quantity
	1 Reel
0.2 m	USD 883.00
0.3 m	USD 1028.00
0.5 m	USD 1257.00
1 m	USD 1678.00

Discs

Web Code
 597-102-260
 637-776-627
 722-082-013
 260-256-451
 532-062-205
 507-778-596
 472-323-015

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 511.00	USD 632.00	USD 762.00
6 mm	USD 536.00	USD 666.00	USD 817.00
8 mm	USD 560.00	USD 700.00	USD 871.00
10 mm	USD 584.00	USD 734.00	USD 925.00
15 mm	USD 645.00	USD 820.00	USD 1061.00
25 mm	USD 766.00	USD 992.00	USD 1332.00
50 mm	USD 1069.00	USD 1421.00	

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000220

Thickness **0.0125mm**
 Temper **Annealed**

Purity **99.6+%**

NLT Sizes

Web Code
 658-526-576
 028-348-496
 999-863-822

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 x 100 mm	USD 454.00	USD 563.00	USD 782.00	USD 1034.00	
150 x 150 mm	USD 582.00	USD 744.00	USD 1068.00		
279 x 300 mm	USD 938.00	USD 1247.00			

Sizes LT

Web Code
 884-849-128
 723-150-208
 881-950-459
 265-809-660
 142-915-249

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 263.00	USD 292.00	USD 354.00	USD 428.00	USD 541.00
50 x 50 mm	USD 326.00	USD 382.00	USD 496.00	USD 630.00	USD 827.00
100 x 100 mm	USD 500.00	USD 619.00	USD 860.00	USD 1137.00	
150 x 150 mm	USD 698.00	USD 892.00	USD 1281.00		
279 x 300 mm	USD 1172.00	USD 1559.00			

Coil

Web Code
 046-933-275

Length	Quantity
	1 Reel
0.5 m	USD 1204.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

Titanium

Ti



Foil

TI000230

Thickness **0.015mm**

Purity **99.6+%**

Size

Web Code

603-751-240
 468-903-772
 612-965-543
 382-539-332
 657-861-588

Size

25 x 25 mm
 50 x 50 mm
 100 x 100 mm
 130 x 150 mm
 266 x 300 mm

		Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
USD 242.00	USD 271.00	USD 331.00	USD 404.00	USD 516.00		
USD 305.00	USD 359.00	USD 471.00	USD 602.00	USD 796.00		
USD 430.00	USD 536.00	USD 751.00	USD 997.00			
USD 529.00	USD 676.00	USD 972.00				
USD 886.00	USD 1181.00					

Coil

Web Code
 650-175-936
 263-144-779

Width 266mm

Length 1 Reel
 0.5 m USD 1139.00
 1 m USD 1517.00

Quantity

Discs

Web Code
 492-484-908
 560-623-461
 077-932-426
 741-558-443
 694-807-936
 850-990-458
 373-804-051

Diameter
 4 mm
 6 mm
 8 mm
 10 mm
 15 mm
 25 mm
 50 mm

Quantity

		10 discs	20 discs	50 discs
USD 373.00	USD 425.00	USD 547.00		
USD 392.00	USD 452.00	USD 590.00		
USD 411.00	USD 479.00	USD 632.00		
USD 430.00	USD 506.00	USD 675.00		
USD 478.00	USD 573.00	USD 781.00		
USD 573.00	USD 707.00	USD 993.00		
USD 810.00	USD 1044.00	USD 1527.00		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000251

Thickness **0.02mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code

725-505-933
 013-347-084
 862-537-128
 547-313-928
 151-240-699

Size

25 x 25 mm
 50 x 50 mm
 95 x 100 mm
 150 x 150 mm
 197 x 300 mm

		Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
USD 234.00	USD 264.00	USD 326.00	USD 401.00	USD 516.00		
USD 299.00	USD 355.00	USD 471.00	USD 606.00	USD 805.00		
USD 422.00	USD 529.00	USD 745.00	USD 994.00	USD 1354.00		
USD 558.00	USD 721.00	USD 1049.00	USD 1424.00			
USD 798.00	USD 1062.00	USD 1620.00				

Coil

Web Code
 780-977-641
 688-247-503
 030-949-833

Width 180mm

Length 1 Reel
 0.5 m USD 994.00
 1 m USD 1316.00
 2 m USD 1971.00

Quantity

Discs

Web Code
 591-051-892
 881-483-249
 185-401-434
 175-177-199
 897-149-426
 143-681-926
 960-248-212

Diameter
 4 mm
 6 mm
 8 mm
 10 mm
 15 mm
 25 mm
 50 mm

Quantity

		10 discs	20 discs	50 discs
USD 362.00	USD 415.00	USD 538.00		
USD 382.00	USD 442.00	USD 582.00		
USD 402.00	USD 470.00	USD 626.00		
USD 421.00	USD 498.00	USD 670.00		
USD 470.00	USD 568.00	USD 780.00		
USD 569.00	USD 707.00	USD 1000.00		
USD 815.00	USD 1056.00	USD 1553.00		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000295

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

High Purity **99.99+%**

Size

Web Code

260-020-112
 502-513-281
 814-153-684

Size

25 x 25 mm
 50 x 50 mm
 100 x 100 mm

Quantity

		1pc	2pcs	5pcs
USD 404.00	USD 524.00	USD 771.00		
USD 677.00	USD 994.00			
USD 1844.00				

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

Titanium

Ti



Foil

TI000290

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

Purity **99.6+%**

Size

Web Code

031-029-506
 878-697-274
 837-161-390
 645-165-294
 530-740-549

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 165.00	USD 187.00	USD 240.00	USD 318.00	USD 416.00
50 x 50 mm	USD 192.00	USD 225.00	USD 301.00	USD 403.00	USD 536.00
100 x 100 mm	USD 246.00	USD 301.00	USD 422.00	USD 574.00	USD 778.00
150 x 150 mm	USD 300.00	USD 378.00	USD 543.00	USD 745.00	
300 x 300 mm	USD 463.00	USD 607.00	USD 905.00		

Coil

Web Code
 541-201-473
 706-989-091
 373-635-638

Width **305mm**

Length	Quantity
	1 Reel
0.5 m	USD 582.00
1 m	USD 763.00
2 m	USD 1114.00

Discs

Web Code
 041-289-593
 161-195-367
 149-422-240
 677-783-752
 722-970-744
 371-344-688
 418-080-124

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 382.00	USD 464.00	USD 703.00
6 mm	USD 390.00	USD 476.00	USD 721.00
8 mm	USD 398.00	USD 487.00	USD 740.00
10 mm	USD 407.00	USD 499.00	USD 758.00
15 mm	USD 427.00	USD 528.00	USD 804.00
25 mm	USD 468.00	USD 586.00	USD 896.00
50 mm	USD 571.00	USD 731.00	USD 1126.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000300

Thickness **0.03mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code
 998-215-480
 776-929-668
 116-205-498
 525-680-067
 710-000-318

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 186.00	USD 198.00	USD 227.00	USD 263.00	USD 324.00
50 x 50 mm	USD 209.00	USD 231.00	USD 279.00	USD 337.00	USD 429.00
100 x 100 mm	USD 256.00	USD 298.00	USD 384.00	USD 486.00	USD 638.00
150 x 150 mm	USD 303.00	USD 364.00	USD 488.00	USD 634.00	USD 848.00
200 x 300 mm	USD 392.00	USD 490.00	USD 687.00		

Coil

Web Code
 780-329-650
 750-038-818
 754-861-569

Width **200mm**

Length	Quantity
	1 Reel
0.5 m	USD 507.00
1 m	USD 630.00
2 m	USD 804.00

Discs

Web Code
 873-554-681
 194-325-373
 290-663-064
 332-886-005
 610-757-511
 344-689-593
 086-195-872

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 305.00	USD 340.00	USD 426.00
6 mm	USD 311.00	USD 349.00	USD 439.00
8 mm	USD 317.00	USD 357.00	USD 452.00
10 mm	USD 323.00	USD 365.00	USD 466.00
15 mm	USD 338.00	USD 386.00	USD 499.00
25 mm	USD 368.00	USD 428.00	USD 565.00
50 mm	USD 442.00	USD 533.00	USD 731.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000315

Thickness **0.05mm**
 Temper **As rolled**

High Purity **99.99+%**

Size

Web Code
 136-555-505
 069-442-058
 680-253-151

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 383.00	USD 495.00	USD 725.00
50 x 50 mm	USD 636.00	USD 945.00	
100 x 100 mm	USD 1746.00		

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

Titanium

Ti



Foil

TI000310

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

Purity **99.6+%**

Size

Web Code
 774-477-060
 809-628-922
 203-623-286
 452-908-860
 162-476-409

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 148.00	USD 165.00	USD 208.00	USD 268.00	USD 337.00
50 x 50 mm	USD 173.00	USD 201.00	USD 264.00	USD 347.00	USD 449.00
100 x 100 mm	USD 223.00	USD 272.00	USD 376.00	USD 505.00	USD 673.00
150 x 150 mm	USD 273.00	USD 343.00	USD 488.00	USD 664.00	
300 x 300 mm	USD 423.00	USD 555.00	USD 824.00		

Coil

Web Code
 446-242-685
 613-602-427
 700-305-724

Length	1 Reel
	0.5 m
1 m	USD 720.00
2 m	USD 951.00

Discs

Web Code
 085-074-265
 634-286-980
 285-865-592
 733-188-886
 648-612-419
 076-552-726
 569-092-458

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 305.00	USD 347.00	USD 468.00
6 mm	USD 312.00	USD 356.00	USD 482.00
8 mm	USD 318.00	USD 365.00	USD 496.00
10 mm	USD 325.00	USD 374.00	USD 510.00
15 mm	USD 340.00	USD 397.00	USD 546.00
25 mm	USD 372.00	USD 442.00	USD 617.00
50 mm	USD 452.00	USD 554.00	USD 795.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000351

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

Purity **99.6+%**
 Condition **Flattened**

Size

Web Code
 241-256-776
 156-724-497
 025-928-623

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
100 x 100 mm	USD 339.00	USD 415.00	USD 570.00	USD 748.00
150 x 200 mm	USD 468.00	USD 598.00	USD 859.00	USD 1158.00
200 x 300 mm	USD 595.00	USD 778.00	USD 1143.00	

Discs

Web Code
 242-222-155
 735-695-837
 452-586-774
 197-150-362
 671-494-452
 734-313-015
 026-127-530

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 316.00	USD 355.00	USD 449.00
6 mm	USD 327.00	USD 371.00	USD 474.00
8 mm	USD 338.00	USD 387.00	USD 500.00
10 mm	USD 350.00	USD 403.00	USD 525.00
15 mm	USD 377.00	USD 442.00	USD 587.00
25 mm	USD 433.00	USD 522.00	USD 713.00
50 mm	USD 574.00	USD 720.00	USD 1028.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000350

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

Purity **99.6+%**

Size

Web Code
 123-954-154
 494-270-281
 783-783-283
 972-902-877
 612-862-167

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 195.00	USD 212.00	USD 248.00	USD 294.00	USD 367.00
50 x 50 mm	USD 228.00	USD 259.00	USD 322.00	USD 399.00	USD 515.00
100 x 100 mm	USD 295.00	USD 353.00	USD 470.00	USD 608.00	USD 812.00
150 x 150 mm	USD 361.00	USD 446.00	USD 619.00	USD 818.00	USD 1108.00
300 x 300 mm	USD 560.00	USD 727.00	USD 1063.00		

Coil

Web Code
 243-569-985
 607-769-501
 971-192-093

Length	1 Reel
	0.5 m
1 m	USD 942.00
2 m	USD 1247.00

Discs

Web Code
 386-192-659
 274-079-101
 259-896-320
 487-045-860
 880-728-253
 091-032-385
 379-046-876

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 310.00	USD 347.00	USD 437.00
6 mm	USD 319.00	USD 359.00	USD 456.00
8 mm	USD 327.00	USD 371.00	USD 474.00
10 mm	USD 335.00	USD 383.00	USD 493.00
15 mm	USD 356.00	USD 413.00	USD 540.00
25 mm	USD 398.00	USD 472.00	USD 634.00
50 mm	USD 503.00	USD 621.00	USD 870.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

Metal – Titanium

Titanium

Ti



Foil

TI000371

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

Purity **99.6+%**
 Condition **Flattened**

Size

Web Code
 630-171-429
 041-183-299

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
150 x 200 mm	USD 516.00	USD 665.00	USD 965.00	USD 1346.00
200 x 300 mm	USD 662.00	USD 872.00	USD 1331.00	

Discs

Web Code
 423-021-686
 175-968-623
 907-277-026
 316-579-676
 094-437-742
 160-968-338
 637-919-830

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 319.00	USD 360.00	USD 457.00
6 mm	USD 332.00	USD 378.00	USD 486.00
8 mm	USD 345.00	USD 397.00	USD 515.00
10 mm	USD 358.00	USD 415.00	USD 544.00
15 mm	USD 390.00	USD 461.00	USD 616.00
25 mm	USD 455.00	USD 552.00	USD 761.00
50 mm	USD 617.00	USD 782.00	USD 1125.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000370

Thickness **0.1mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code
 380-858-910
 607-371-481
 921-437-060
 179-629-378
 664-077-116

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 203.00	USD 222.00	USD 262.00	USD 312.00	USD 391.00
50 x 50 mm	USD 241.00	USD 275.00	USD 346.00	USD 431.00	USD 561.00
100 x 100 mm	USD 316.00	USD 382.00	USD 516.00	USD 671.00	
150 x 150 mm	USD 392.00	USD 489.00	USD 685.00		
300 x 300 mm	USD 619.00	USD 810.00			

Coil

Web Code
 189-018-411
 707-882-026

Length	Quantity
	1 Reel
0.5 m	USD 799.00
1 m	USD 1043.00

Discs

Web Code
 809-251-386
 156-416-369
 552-049-618
 006-211-220
 776-410-055
 051-251-261
 406-410-729

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 316.00	USD 354.00	USD 445.00
6 mm	USD 325.00	USD 367.00	USD 467.00
8 mm	USD 335.00	USD 381.00	USD 488.00
10 mm	USD 344.00	USD 394.00	USD 510.00
15 mm	USD 368.00	USD 428.00	USD 563.00
25 mm	USD 416.00	USD 496.00	USD 670.00
50 mm	USD 536.00	USD 666.00	USD 940.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000385

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

High Purity **99.99+%**

Size

Web Code
 727-305-262
 913-150-763
 143-849-769

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 316.00	USD 400.00	USD 644.00
50 x 50 mm	USD 518.00	USD 914.00	
100 x 100 mm	USD 1683.00		

Discs

Web Code
 981-214-161
 651-770-958
 471-373-838
 921-732-484
 216-554-361

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 396.00	USD 509.00	USD 667.00
6 mm	USD 445.00	USD 579.00	USD 781.00
8 mm	USD 494.00	USD 651.00	USD 974.00
10 mm	USD 544.00	USD 724.00	USD 1269.00
15 mm	USD 665.00	USD 1096.00	

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

Metal – Titanium

Titanium

Ti



Foil

TI000380

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

Purity **99.6+%**

Size

Web Code

057-906-071
 238-253-034
 781-636-016
 704-503-213
 062-901-753
 922-485-882

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 152.00	USD 169.00	USD 210.00	USD 267.00	USD 370.00
50 x 50 mm	USD 175.00	USD 201.00	USD 260.00	USD 339.00	USD 471.00
100 x 100 mm	USD 220.00	USD 265.00	USD 361.00	USD 482.00	USD 674.00
150 x 150 mm	USD 266.00	USD 329.00	USD 463.00	USD 625.00	
200 x 300 mm	USD 351.00	USD 451.00	USD 711.00		
292 x 300 mm	USD 398.00	USD 516.00			

Coil

Web Code
 545-948-500
 862-715-984

Width 292mm

Length	1 Reel
0.5 m	USD 469.00
1 m	USD 660.00

Discs

Web Code
 557-246-320
 655-797-546
 974-690-389
 836-290-194
 536-267-545
 033-446-776
 180-848-104

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 312.00	USD 390.00	USD 475.00
6 mm	USD 317.00	USD 398.00	USD 488.00
8 mm	USD 323.00	USD 406.00	USD 500.00
10 mm	USD 329.00	USD 414.00	USD 513.00
15 mm	USD 343.00	USD 434.00	USD 545.00
25 mm	USD 372.00	USD 475.00	USD 610.00
50 mm	USD 444.00	USD 576.00	USD 771.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000382

Thickness **0.140mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code

606-012-500
 010-177-731
 272-216-225
 027-035-967
 379-493-508
 742-088-872

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 155.00	USD 172.00	USD 214.00	USD 274.00	USD 379.00
50 x 50 mm	USD 179.00	USD 207.00	USD 269.00	USD 352.00	USD 489.00
100 x 100 mm	USD 228.00	USD 277.00	USD 379.00	USD 507.00	USD 710.00
150 x 150 mm	USD 278.00	USD 346.00	USD 490.00	USD 663.00	
160 x 300 mm	USD 346.00	USD 442.00	USD 642.00		
300 x 300 mm	USD 425.00	USD 555.00			

Coil

Web Code
 436-693-678
 751-563-854

Width 305mm

Length	1 Reel
0.5 m	USD 508.00
1 m	USD 706.00

Discs

Web Code
 028-375-940
 546-997-443
 374-685-253
 835-655-353
 456-918-924
 114-862-575
 357-818-460

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 313.00	USD 391.00	USD 477.00
6 mm	USD 319.00	USD 400.00	USD 491.00
8 mm	USD 325.00	USD 409.00	USD 505.00
10 mm	USD 331.00	USD 418.00	USD 519.00
15 mm	USD 347.00	USD 440.00	USD 554.00
25 mm	USD 378.00	USD 484.00	USD 624.00
50 mm	USD 456.00	USD 595.00	USD 800.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000401

Thickness **0.2mm**
 Temper **Annealed**

Purity **99.6+%**

Condition **Flattened**

Size

Web Code

907-888-770
 204-903-429
 313-677-415

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
50 x 50 mm	USD 219.00	USD 263.00	USD 358.00	USD 477.00
100 x 100 mm	USD 308.00	USD 388.00	USD 556.00	
200 x 300 mm	USD 565.00	USD 753.00		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

Titanium

Ti



Foil

TI000400

Thickness **0.2mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code

129-380-472
 580-405-247
 941-750-285
 236-895-810
 973-163-541

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 162.00	USD 183.00	USD 232.00	USD 299.00	USD 415.00
50 x 50 mm	USD 195.00	USD 229.00	USD 305.00	USD 402.00	USD 560.00
100 x 100 mm	USD 260.00	USD 321.00	USD 450.00	USD 607.00	
150 x 150 mm	USD 325.00	USD 413.00	USD 596.00		
300 x 300 mm	USD 520.00	USD 689.00			

Coil

Web Code
 825-843-223
 228-266-286

Width 300mm	Quantity	
	Length	1 Reel
0.5 m	USD 627.00	
1 m	USD 836.00	

Discs

Web Code
 986-033-217
 968-970-654
 543-435-716
 178-645-566
 380-041-064
 595-064-213
 299-707-372

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 317.00	USD 397.00	USD 520.00
6 mm	USD 325.00	USD 408.00	USD 538.00
8 mm	USD 333.00	USD 420.00	USD 557.00
10 mm	USD 341.00	USD 432.00	USD 576.00
15 mm	USD 362.00	USD 461.00	USD 622.00
25 mm	USD 403.00	USD 519.00	USD 714.00
50 mm	USD 507.00	USD 666.00	USD 948.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000410

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

Purity **99.6+%**

Size

Web Code

768-534-698
 066-835-971
 354-498-924
 312-367-578
 045-940-137

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 165.00	USD 187.00	USD 238.00	USD 308.00	USD 427.00
50 x 50 mm	USD 201.00	USD 237.00	USD 317.00	USD 420.00	USD 585.00
100 x 100 mm	USD 271.00	USD 337.00	USD 476.00	USD 643.00	
150 x 150 mm	USD 342.00	USD 437.00	USD 634.00		
300 x 300 mm	USD 554.00	USD 737.00			

Coil

Web Code
 316-367-513
 742-519-425

Width 305mm	Quantity	
	Length	1 Reel
0.5 m	USD 676.00	
1 m	USD 905.00	

Discs

Web Code
 674-850-554
 356-312-880
 539-103-561
 387-945-396
 493-170-938
 646-364-761
 795-591-392

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 318.00	USD 399.00	USD 523.00
6 mm	USD 327.00	USD 411.00	USD 543.00
8 mm	USD 336.00	USD 424.00	USD 563.00
10 mm	USD 345.00	USD 437.00	USD 584.00
15 mm	USD 367.00	USD 469.00	USD 634.00
25 mm	USD 412.00	USD 532.00	USD 735.00
50 mm	USD 525.00	USD 692.00	USD 989.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000416

Thickness **0.3mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code

169-498-291
 235-167-601
 221-732-416

Size	Quantity		
	1pc	2pcs	5pcs
100 x 100 mm	USD 280.00	USD 350.00	USD 496.00
150 x 150 mm	USD 356.00	USD 457.00	USD 664.00
300 x 300 mm	USD 582.00	USD 776.00	

Coil

Web Code
 132-825-015
 554-285-099

Width 300mm	Quantity	
	Length	1 Reel
0.5 m	USD 706.00	
1 m	USD 949.00	

Discs

Web Code
 408-518-289
 688-508-383
 143-762-475
 787-600-313
 644-217-040
 360-282-234
 548-345-091

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 319.00	USD 400.00	USD 526.00
6 mm	USD 329.00	USD 414.00	USD 547.00
8 mm	USD 338.00	USD 427.00	USD 569.00
10 mm	USD 348.00	USD 441.00	USD 590.00
15 mm	USD 372.00	USD 475.00	USD 644.00
25 mm	USD 419.00	USD 542.00	USD 751.00
50 mm	USD 539.00	USD 712.00	USD 1021.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

Titanium

Ti



Foil

TI000419	Thickness	0.35mm	Purity	99.6+%
	Temper	Annealed	Condition	Platinised on both sides
Size		Quantity		
Web Code	Size	1pc		
386-456-572	100 x 100 mm	USD 799.00		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000423	Thickness	0.5mm	Purity	99.6+%
	Condition	Ion Implanted		
Size		Quantity		
Web Code	Size	1pc		
116-312-044	50 x 50 mm	POA		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.
 This material has been Ion Implanted with Nitrogen Ions to a dose of 3×10^{17} ions cm^{-2} .

TI000425	Thickness	0.5mm	Purity	99.6+%
	Temper	Annealed	Condition	Polished on both sides
Size		Quantity		
Web Code	Size	1pc	2pcs	5pcs
772-974-842	100 x 100 mm	USD 292.00	USD 377.00	USD 570.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000421	Thickness	0.5mm	Purity	99.6+%
	Surface treatment	Titanium Nitride coating 2-3 microns		
Size		Quantity		
Web Code	Size	1pc	2pcs	5pcs
541-806-825	25 x 25 mm	USD 235.00	USD 286.00	USD 394.00
725-858-944	50 x 50 mm	USD 340.00	USD 434.00	
732-369-991	100 x 100 mm	USD 550.00		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.
 This item is shown as an example of Titanium Nitride (TiN) coated material. Other items or your own material may also have a coating applied, please ask for more details.

TI000420	Thickness	0.5mm	Purity	99.6+%		
	Temper	Annealed				
Size		Quantity				
Web Code	Size	1pc	2pcs	5pcs	10pcs	20pcs
395-215-502	25 x 25 mm	USD 156.00	USD 174.00	USD 219.00	USD 281.00	USD 352.00
401-947-946	50 x 50 mm	USD 181.00	USD 210.00	USD 275.00	USD 362.00	USD 466.00
243-490-913	100 x 100 mm	USD 232.00	USD 282.00	USD 389.00	USD 522.00	
436-363-166	150 x 150 mm	USD 283.00	USD 354.00	USD 503.00		
545-396-026	300 x 300 mm	USD 436.00	USD 635.00			

Discs		Quantity			
Web Code	Diameter	10 discs	20 discs	50 discs	
174-503-000	4 mm	USD 344.00	USD 395.00	USD 543.00	
812-883-333	6 mm	USD 351.00	USD 406.00	USD 560.00	
610-424-962	8 mm	USD 359.00	USD 417.00	USD 578.00	
303-115-363	10 mm	USD 367.00	USD 428.00	USD 595.00	
889-416-404	15 mm	USD 386.00	USD 455.00	USD 638.00	
177-058-647	25 mm	USD 425.00	USD 510.00	USD 725.00	
132-334-408	50 mm	USD 522.00	USD 647.00		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI000417	Thickness	0.5mm	Purity	99.6+%	
	Temper	Annealed	Condition	Polished on 1 side	
Size		Quantity			
Web Code	Size	1pc	2pcs	5pcs	10pcs
832-171-022	10 x 10 mm	USD 271.00	USD 337.00	USD 501.00	USD 880.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

Metal – Titanium

Titanium

Ti



Foil

TI000422

Thickness **0.7mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code

205-817-696
 727-209-309
 901-170-200
 646-283-102
 785-398-996
 174-873-228

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 168.00	USD 183.00	USD 215.00	USD 256.00	USD 324.00
50 x 50 mm	USD 196.00	USD 223.00	USD 279.00	USD 346.00	USD 451.00
100 x 100 mm	USD 253.00	USD 303.00	USD 406.00	USD 526.00	
150 x 150 mm	USD 310.00	USD 384.00	USD 533.00		
300 x 300 mm	USD 481.00	USD 625.00			
500 x 500 mm	USD 708.00				

Discs

Web Code

859-151-435
 393-937-489
 242-177-694
 272-211-949
 026-499-559
 312-438-349
 054-791-401

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 295.00	USD 334.00	USD 431.00
6 mm	USD 303.00	USD 346.00	USD 448.00
8 mm	USD 311.00	USD 357.00	USD 466.00
10 mm	USD 319.00	USD 368.00	USD 484.00
15 mm	USD 338.00	USD 396.00	USD 528.00
25 mm	USD 378.00	USD 452.00	USD 617.00
50 mm	USD 477.00	USD 593.00	USD 840.00

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI000432

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

High Purity **99.99+%**

Size

Web Code

584-866-631
 108-336-569
 542-069-398

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 349.00	USD 465.00	USD 717.00
50 x 50 mm	USD 528.00	USD 772.00	
100 x 100 mm	USD 1292.00		

Discs

Web Code

758-671-372
 833-914-083
 239-257-642
 907-208-069
 401-012-081

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 658.00	USD 930.00	USD 1704.00
6 mm	USD 709.00	USD 1003.00	USD 1821.00
8 mm	USD 761.00	USD 1077.00	USD 1941.00
10 mm	USD 813.00	USD 1152.00	USD 2123.00
15 mm	USD 940.00	USD 1359.00	

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI000433

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

High Purity **99.999%**

Size

Web Code

812-737-861
 592-230-675

Size	Quantity	
	1pc	2pcs
25 x 25 mm	USD 550.00	USD 750.00
50 x 50 mm	USD 1073.00	

Discs

Web Code

603-234-420
 404-307-191
 538-399-744
 299-968-929

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 773.00	USD 1094.00	USD 1966.00
6 mm	USD 883.00	USD 1252.00	
8 mm	USD 995.00	USD 1413.00	
10 mm	USD 1108.00		

Typical Analysis : Al 2, Cu 1, Fe 3, Si 1, Sn 1

TI000431

Thickness **1.0mm**
 Surface treatment **Titanium Nitride coating 2-3 microns**

Purity **99.6+%**

Size

Web Code

702-374-695
 796-826-641
 603-328-130

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 228.00	USD 276.00	USD 379.00	USD 507.00
50 x 50 mm	USD 326.00	USD 415.00	USD 599.00	
100 x 100 mm	USD 523.00			

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

Metal – Titanium

Titanium

Ti



Foil

TI000430

Thickness **1.0mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code

457-003-322
 125-412-506
 676-571-029
 571-381-273
 422-657-739
 832-224-674

Size
 25 x 25 mm
 50 x 50 mm
 100 x 100 mm
 150 x 150 mm
 300 x 300 mm
 500 x 500 mm

Quantity					
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 150.00	USD 173.00	USD 234.00	USD 326.00	USD 499.00
50 x 50 mm	USD 171.00	USD 202.00	USD 280.00	USD 390.00	USD 590.00
100 x 100 mm	USD 211.00	USD 260.00	USD 371.00	USD 519.00	
150 x 150 mm	USD 252.00	USD 317.00	USD 462.00		
300 x 300 mm	USD 374.00	USD 547.00			
500 x 500 mm	USD 689.00				

Discs

Web Code

028-078-493
 509-804-178
 725-523-593
 690-438-003
 304-758-631
 094-828-900
 853-618-903

Diameter
 4 mm
 6 mm
 8 mm
 10 mm
 15 mm
 25 mm
 50 mm

Quantity			
	10 discs	20 discs	50 discs
4 mm	USD 395.00	USD 561.00	USD 812.00
6 mm	USD 401.00	USD 569.00	USD 825.00
8 mm	USD 406.00	USD 577.00	USD 837.00
10 mm	USD 412.00	USD 585.00	USD 850.00
15 mm	USD 426.00	USD 605.00	USD 882.00
25 mm	USD 455.00	USD 645.00	USD 946.00
50 mm	USD 526.00	USD 747.00	USD 1108.00

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI000436

Thickness **1.20mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code

145-934-621
 463-826-320

Size
 150 x 150 mm
 300 x 300 mm

Quantity			
	1pc	2pcs	5pcs
150 x 150 mm	USD 354.00	USD 446.00	USD 632.00
300 x 300 mm	USD 569.00	USD 770.00	

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI000437

Thickness **1.5mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code

101-479-356
 684-924-816
 615-609-851
 951-226-388
 903-294-963

Size
 25 x 25 mm
 50 x 50 mm
 100 x 100 mm
 150 x 150 mm
 300 x 300 mm

Quantity					
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 176.00	USD 194.00	USD 233.00	USD 282.00	USD 360.00
50 x 50 mm	USD 212.00	USD 246.00	USD 315.00	USD 397.00	USD 523.00
100 x 100 mm	USD 285.00	USD 349.00	USD 478.00	USD 628.00	
150 x 150 mm	USD 358.00	USD 452.00	USD 641.00		
300 x 300 mm	USD 577.00	USD 891.00			

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.
 We can also offer 99.99% material, prices on request.

TI000441

Thickness **2.0mm**
 Surface treatment **Titanium Nitride coating 2-3 microns**

Purity **99.6+%**

Size

Web Code

936-788-231
 098-526-117
 315-763-502

Size
 25 x 25 mm
 50 x 50 mm
 100 x 100 mm

Quantity				
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 239.00	USD 288.00	USD 394.00	USD 525.00
50 x 50 mm	USD 341.00	USD 432.00	USD 622.00	
100 x 100 mm	USD 544.00			

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.
 This item is shown as an example of Titanium Nitride (TiN) coated material.

TI000440

Thickness **2.0mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code

263-376-857
 922-100-049
 262-509-593
 813-694-122
 711-767-761
 970-963-485

Size
 25 x 25 mm
 50 x 50 mm
 100 x 100 mm
 150 x 150 mm
 300 x 300 mm
 500 x 500 mm

Quantity					
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 178.00	USD 197.00	USD 238.00	USD 289.00	USD 370.00
50 x 50 mm	USD 217.00	USD 252.00	USD 325.00	USD 412.00	USD 544.00
100 x 100 mm	USD 295.00	USD 362.00	USD 499.00	USD 658.00	
150 x 150 mm	USD 373.00	USD 472.00	USD 673.00		
300 x 300 mm	USD 606.00	USD 810.00			
500 x 500 mm	USD 1067.00				

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI000450

Thickness **2.5mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code

527-982-693
 232-154-309
 848-973-878
 324-906-607

Size
 50 x 50 mm
 100 x 100 mm
 150 x 150 mm
 300 x 300 mm

Quantity					
	1pc	2pcs	5pcs	10pcs	20pcs
50 x 50 mm	USD 226.00	USD 265.00	USD 346.00	USD 442.00	USD 585.00
100 x 100 mm	USD 313.00	USD 388.00	USD 540.00	USD 717.00	USD 1124.00
150 x 150 mm	USD 400.00	USD 511.00	USD 735.00	USD 1210.00	
300 x 300 mm	USD 661.00	USD 977.00	USD 2239.00		

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

Titanium

Ti



Foil

TI000460

Thickness **3.0mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code

881-241-821
 155-226-563
 403-321-253
 549-675-408
 415-152-205

Size

50 x 50 mm
 100 x 100 mm
 150 x 150 mm
 190 x 300 mm
 300 x 300 mm

Quantity

1pc	2pcs	5pcs
USD 234.00	USD 276.00	USD 362.00
USD 328.00	USD 409.00	USD 572.00
USD 422.00	USD 542.00	
USD 589.00		
USD 704.00		

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI000500

Thickness **3.2mm**
 Temper **As rolled**

High Purity **99.99+%**

Size

Web Code

894-032-736
 754-091-171
 261-396-631

Size

25 x 25 mm
 50 x 50 mm
 100 x 100 mm

Quantity

1pc	2pcs	5pcs
USD 363.00	USD 485.00	USD 749.00
USD 557.00	USD 868.00	
USD 1482.00		

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.



Sheet

TI003140

Thickness **4.0mm**
 Temper **Annealed**

Purity **99.6+%**

Discs

Web Code

192-447-187

Diameter

26 mm

Quantity

1 pcs	2 pcs
USD POA	USD POA

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI003150

Thickness **5.0mm**
 Purity **99.6+%**

Tolerance **20 %**
 Temper **Annealed**

Size

Web Code

433-101-802
 121-072-818

Size

150 x 150 mm
 300 x 300 mm

Quantity

1pc	2 pcs
POA	POA

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI003151

Thickness **5.0mm**
 Purity **99.6+%**

Tolerance **20 %**
 Temper **Annealed**

Size

Web Code

846-346-453

Size

20 x 20 mm

Quantity

1pc	2pcs	5pcs	10pcs
USD 145.00	USD 178.00	USD 262.00	USD 447.00

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI003200

Thickness **7.0mm**

Purity **99.6+%**

Size

Web Code

739-589-782
 448-715-217

Size

150 x 150 mm
 300 x 300 mm

Quantity

1pc
POA
POA

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI003230

Thickness **8.0mm**

Purity **99.6+%**

Size

Web Code

089-994-764
 609-269-915
 117-989-168
 322-171-842

Size

75 x 75 mm
 75 x 105 mm
 90 x 340 mm
 92 x 498 mm

Quantity

1pc
POA
POA
POA
POA

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI003250

Thickness **12.0mm**

Purity **99.6+%**

Size

Web Code

089-409-444
 176-182-493

Size

150 x 150 mm
 300 x 300 mm

Quantity

1pc
POA
POA

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

Metal – Titanium

Titanium

Ti



Sputtering Target

TI009100	Thickness 1.0mm	High Purity 99.99+%
Size	Quantity	
Web Code	Disc diam.	1disc
393-206-927	33 mm	POA
Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3. These targets are normally available for immediate shipment from stock. Other sizes are available to special order.		
TI009300	Thickness 3.0mm	High Purity 99.99+%
Size	Quantity	
Web Code	Disc diam.	1disc
877-206-666	25 mm	POA
789-984-168	50 mm	POA
748-016-513	75 mm	POA
Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3. These targets are normally available for immediate shipment from stock. Other sizes are available to special order.		
TI009301	Thickness 3.0mm	Purity 99.6+%
Size	Quantity	
Web Code	Disc diam.	1disc
502-063-393	50 mm	POA
757-916-720	75 mm	POA
Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500. These targets are normally available for immediate shipment from stock. Other sizes are available to special order.		
TI009600	Thickness 6.0mm	High Purity 99.99+%
Size	Quantity	
Web Code	Disc diam.	1disc
388-404-527	25.4 mm	POA
327-130-952	50 mm	POA
930-533-923	75 mm	POA
894-411-415	101.6 mm	POA
Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3. These targets are normally available for immediate shipment from stock. Other sizes are available to special order.		
TI009512	Thickness 6.0mm	Purity 99.6+%
Size	Quantity	
Web Code	Disc diam.	1disc
503-269-618	120 mm	POA
Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.		
TI009515	Thickness 6.0mm	Purity 99.6+%
Size	Quantity	
Web Code	Disc diam.	1disc
908-701-507	152.4 mm	POA
Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.		
TI009520	Thickness 6.0mm	Purity 99.6+%
Size	Quantity	
Web Code	Disc diam.	1disc
587-693-758	203.2 mm	POA
Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.		
TI009700	Thickness 7.0mm	Purity 99.6+%
Size	Quantity	
Web Code	Disc diam.	1disc
073-522-547	50 mm	POA
190-319-810	75 mm	POA
Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500. These targets are normally available for immediate shipment from stock. Other sizes are available to special order.		

Metal – Titanium

Titanium

Ti



Mesh

TI008710

Nominal Aperture..... **0.19mm**
 Wires/inch..... **60x60**
 Weave..... **Twill**

Wire diameter..... **0.23mm**
 Open area **20%**

Size

Web Code
 113-282-527
 160-318-438
 039-809-321

Size	Quantity		
	1pc	2pcs	5pcs
50 x 50 mm	USD 482.00	USD 642.00	USD 921.00
100 x 100 mm	USD 668.00	USD 907.00	USD 1358.00
150 x 150 mm	USD 855.00	USD 1171.00	

TI008720

Nominal Aperture..... **4.3mm**
 Wires/inch..... **4.4x4.4**
 Condition..... **Diamond pattern**

Wire diameter..... **1.5mm**
 Open area **94%**
 Condition..... **Platinised**

Size

Web Code
 293-740-051

Size	Quantity
	1pc
100 x 100 mm	USD 746.00



Wire

TI005100

Diameter..... **0.05mm**
 Temper..... **Hard**

Purity..... **99.8%**

Length

Web Code
 703-333-766
 916-721-398
 590-169-228
 771-155-069
 044-552-997

Length	Quantity
	1 Reel
10 m	USD 388.00
20 m	USD 475.00
50 m	USD 647.00
100 m	USD 843.00
200 m	USD 1123.00

Typical Analysis : Al 1, Cr 30, Cu 10, Fe 90, Mg 10, Mn 400, Ni 50, Si 30, V 50, H 80, N 20, O 400.

TI005108

Diameter..... **0.08mm**
 Temper..... **As drawn**

Purity..... **99.6+%**

Length

Web Code
 688-190-022

Length	Quantity
	1 Reel
10 m	USD 388.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI005112

Diameter..... **0.125mm**
 Temper..... **Annealed**

Purity..... **99.6+%**

Length

Web Code
 162-135-533
 266-947-713
 622-638-419
 368-464-341
 349-966-852

Length	Quantity
	1 Reel
10 m	USD 254.00
20 m	USD 309.00
50 m	USD 419.00
100 m	USD 545.00
200 m	USD 730.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI005119

Diameter..... **0.20mm**
 Temper..... **As drawn**

Purity..... **99.6+%**

Length

Web Code
 109-417-803

Length	Quantity
	1 Reel
10 m	USD 248.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.
 10m reels only.

TI005121

Diameter..... **0.20mm**
 Temper..... **Annealed**

Purity..... **99.6+%**

Length

Web Code
 407-756-100
 474-042-012
 963-914-025
 782-680-564
 364-257-070
 434-034-311

Length	Quantity
	1 Reel
1 m	USD 170.00
5 m	USD 203.00
25 m	USD 276.00
100 m	USD 412.00
200 m	USD 529.00
500 m	USD 1020.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

Titanium

Ti



Wire

TI005124

Diameter **0.25mm**
 Temper **As drawn**

Purity **99.6+%**

Length
Web Code
 552-625-721

Quantity	
Length	1 Reel
10 m	USD 240.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.
 10m reels only.

TI005120

Diameter **0.25mm**
 Temper **As drawn**

High Purity **99.99+%**

Length
Web Code
 254-793-337
 849-171-880
 146-486-879
 310-857-604

Quantity	
Length	1 Reel
0.5 m	USD 223.00
1 m	USD 278.00
2 m	USD 360.00
5 m	USD 538.00

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI005122

Diameter **0.25mm**
 Temper **Annealed**

Purity **99.6+%**

Length
Web Code
 782-345-219
 793-150-275
 143-776-319
 972-049-909
 506-244-341
 280-545-040

Quantity	
Length	1 Reel
1 m	USD 172.00
5 m	USD 206.00
25 m	USD 283.00
100 m	USD 426.00
200 m	USD 548.00
500 m	USD 1112.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI005123

Diameter **0.25mm**
 Temper **As drawn**

Purity **99.6+%**

Length
Web Code
 128-690-626
 969-449-238
 557-759-758
 461-325-340
 007-612-179
 510-587-840

Quantity	
Length	1 Reel
1 m	USD 172.00
5 m	USD 206.00
25 m	USD 283.00
100 m	USD 426.00
200 m	USD 548.00
500 m	USD 1112.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI005127

Diameter **0.5mm**
 Temper **Annealed**

Purity **99.975+%**

Length
Web Code
 341-440-179
 680-020-060
 002-501-645

Quantity	
Length	1 Reel
0.5 m	USD 223.00
1 m	USD 279.00
2 m	USD 373.00

Typical Analysis : Al <10, Ca <5, Cr <10, Cu <5, Fe <160, K <1, Li <1, Mg <10, Mo <10, Na <1, Si <10.

TI005128

Diameter **0.5mm**
 Temper **As drawn**

High Purity **99.99+%**

Length
Web Code
 809-328-225
 166-027-687
 753-455-659
 181-958-579

Quantity	
Length	1 Reel
0.5 m	USD 241.00
1 m	USD 303.00
2 m	USD 396.00
5 m	USD 711.00

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI005125

Diameter **0.5mm**
 Temper **As drawn**

Purity **99.6+%**

Length
Web Code
 068-135-256
 516-906-634
 613-334-558
 666-822-887
 352-853-849

Quantity	
Length	1 Reel
1 m	USD 168.00
5 m	USD 206.00
25 m	USD 292.00
100 m	USD 451.00
200 m	USD 606.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

Metal – Titanium

Titanium

Ti



Wire

TI005126

Diameter **0.75mm** Purity **99.6+%**
 Temper **As drawn**

Length		Quantity	
Web Code	Length	1 Reel	
269-768-530	1 m	USD	179.00
906-884-492	5 m	USD	232.00
767-359-636	10 m	USD	271.00
691-686-624	20 m	USD	328.00
612-284-036	50 m	USD	440.00
717-833-543	100 m	USD	578.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI005320

Diameter **1.0mm** Purity **99.6+%**
 Condition **Straight wire** Temper **As drawn**

Web Code	Length	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
				3.6g	#1000 mm#	

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI005130

Diameter **1.0mm** Purity **99.6+%**
 Temper **Annealed**

Length		Quantity	
Web Code	Length	1 Reel	
762-664-231	0.5 m	USD	161.00
333-028-321	1 m	USD	176.00
628-549-595	5 m	USD	243.00
568-687-660	25 m	USD	394.00
085-951-196	100 m	USD	745.00

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI005129

Diameter **1.0mm** Purity **99.6+%**
 Temper **As drawn**

Length		Quantity	
Web Code	Length	1 Reel	
710-202-350	0.5 m	USD	161.00
775-296-397	1 m	USD	176.00
912-044-669	5 m	USD	243.00
005-581-872	25 m	USD	394.00
697-731-818	100 m	USD	745.00

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI005135

Diameter **1.0mm** High Purity **99.99+%**
 Temper **As drawn**

Length		Quantity	
Web Code	Length	1 Reel	
743-899-888	0.5 m	USD	286.00
987-481-525	1 m	USD	355.00
435-199-458	2 m	USD	458.00

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI005136

Diameter **1.0mm** Purity **99.99+%**
 Temper **Annealed**

Length		Quantity	
Web Code	Length	1 Reel	
684-191-326	0.5 m	USD	286.00
301-401-658	1 m	USD	355.00
042-269-369	2 m	USD	458.00

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI005140

Diameter **1.5mm** Purity **99.6+%**
 Temper **As drawn**

Length		Quantity	
Web Code	Length	1 Reel	
809-085-444	1 m	USD	198.00
506-434-790	5 m	USD	291.00
941-505-933	10 m	USD	361.00
755-186-249	20 m	USD	460.00
833-122-096	50 m	USD	724.00

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

Metal – Titanium

Titanium

Ti



Wire

TI005160

Diameter **3.0mm**
 Temper **Annealed**

Purity **99.6+%**

Length
Web Code
 902-253-893

Quantity	
Length	1 Reel
1 m	USD 250.00

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.



Rod

TI007905

Diameter **1.5mm**
 Temper **Annealed**

Purity **99.6+%**

Size
Web Code
 726-938-831
 455-869-852
 038-382-829
 341-063-631

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 169.00	USD 204.00	USD 250.00	USD 320.00	USD 453.00
200 mm	USD 175.00	USD 213.00	USD 264.00	USD 340.00	USD 481.00
500 mm	USD 187.00	USD 230.00	USD 292.00	USD 380.00	USD 537.00
1000 mm	USD 201.00	USD 250.00	USD 323.00	USD 424.00	USD 599.00

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI007910

Diameter **2mm**
 Temper **Annealed**

Purity **99.6+%**

Size
Web Code
 613-226-991
 653-367-004
 039-162-907
 860-685-368

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 173.00	USD 210.00	USD 259.00	USD 334.00	USD 471.00
200 mm	USD 181.00	USD 221.00	USD 277.00	USD 359.00	USD 507.00
490 mm	USD 196.00	USD 243.00	USD 312.00	USD 407.00	USD 576.00
1000 mm	USD 214.00	USD 269.00	USD 353.00	USD 465.00	USD 683.00

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI007911

Diameter **2mm**
 Temper **As drawn**

High Purity **99.99+%**

Size
Web Code
 669-911-794
 626-767-595
 331-228-329
 587-909-642

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 220.00	USD 264.00	USD 341.00	USD 521.00
200 mm	USD 256.00	USD 315.00	USD 513.00	USD 889.00
500 mm	USD 328.00	USD 508.00	USD 1065.00	
1000 mm	USD 500.00	USD 876.00		

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI007913

Diameter **2mm**
 Temper **Annealed**

Purity **99.99+%**

Size
Web Code
 487-942-601
 720-919-424
 246-190-801
 263-199-777

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 238.00	USD 282.00	USD 359.00	USD 540.00
200 mm	USD 274.00	USD 333.00	USD 532.00	USD 907.00
500 mm	USD 346.00	USD 527.00	USD 1083.00	
1000 mm	USD 519.00	USD 895.00		

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI007915

Diameter **3.0mm**
 Temper **Annealed**

Purity **99.6+%**

Size
Web Code
 993-901-341
 177-055-164
 167-721-605
 548-835-815

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 179.00	USD 218.00	USD 273.00	USD 353.00	USD 498.00
200 mm	USD 189.00	USD 233.00	USD 296.00	USD 386.00	USD 545.00
500 mm	USD 210.00	USD 263.00	USD 343.00	USD 452.00	USD 642.00
1000 mm	USD 234.00	USD 296.00	USD 395.00	USD 529.00	USD 898.00

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI007916

Diameter **4mm**
 Temper **Annealed**

Purity **99.6+%**

Size
Web Code
 647-843-137
 549-782-494
 814-360-570
 144-236-334

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 189.00	USD 231.00	USD 290.00	USD 373.00	USD 522.00
200 mm	USD 203.00	USD 250.00	USD 320.00	USD 416.00	USD 583.00
500 mm	USD 230.00	USD 288.00	USD 380.00	USD 520.00	USD 877.00
1000 mm	USD 260.00	USD 331.00	USD 467.00	USD 771.00	

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

Titanium

Ti



Rod

TI007920

Diameter **5mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code
 585-670-678
 208-829-984
 103-746-780
 968-344-939

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 191.00	USD 233.00	USD 293.00	USD 378.00	USD 528.00
200 mm	USD 205.00	USD 253.00	USD 325.00	USD 422.00	USD 594.00
500 mm	USD 233.00	USD 293.00	USD 387.00	USD 542.00	USD 920.00
1000 mm	USD 264.00	USD 337.00	USD 489.00	USD 814.00	

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI007918

Diameter **5.0mm**
 Temper **As drawn**

Purity **99.99+%**

Size

Web Code
 428-536-198
 267-928-716

Length	Quantity	
	1pc	2pcs
50 mm	USD 391.00	USD 491.00
100 mm	USD 467.00	USD 599.00

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI007921

Diameter **6mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code
 043-116-388
 389-540-768
 692-593-155
 574-141-796

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 212.00	USD 261.00	USD 326.00	USD 417.00
200 mm	USD 229.00	USD 284.00	USD 364.00	USD 470.00
500 mm	USD 262.00	USD 332.00	USD 439.00	USD 679.00
1000 mm	USD 300.00	USD 385.00	USD 626.00	

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI007923

Diameter **6.2mm**
 Temper **Annealed**

Purity **99.99+%**

Size

Web Code
 017-601-271
 571-501-549
 384-667-485

Length	Quantity
	1pc
154 mm	USD 546.00
370 mm	USD 894.00
895 mm	USD 1868.00

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI007922

Diameter **6.35mm**
 Temper **Annealed**

High Purity **99.99+%**

Size

Web Code
 664-090-505
 519-300-427
 277-294-013

Length	Quantity	
	1pc	2pcs
50 mm	USD 400.00	USD 504.00
100 mm	USD 480.00	USD 617.00
200 mm	USD 593.00	

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI007925

Diameter **8.0mm**
 Temper **As drawn**

High Purity **99.99+%**

Size

Web Code
 823-918-786
 405-093-456
 986-116-236

Length	Quantity	
	1pc	2pcs
50 mm	USD 450.00	USD 574.00
100 mm	USD 550.00	USD 818.00
200 mm	USD 793.00	

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI007931

Diameter **9.5mm**
 Temper **Annealed**

High Purity **99.99+%**

Size

Web Code
 351-300-359
 912-539-653
 918-599-677
 824-951-989

Length	Quantity		
	1pc	2pcs	5pcs
25 mm	USD 409.00	USD 517.00	USD 761.00
50 mm	USD 493.00	USD 639.00	
100 mm	USD 615.00	USD 1048.00	
200 mm	USD 1024.00		

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI007930

Diameter **10mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code
 767-723-911
 965-493-289
 686-650-782
 831-348-743

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 230.00	USD 278.00	USD 353.00	USD 453.00
200 mm	USD 254.00	USD 311.00	USD 405.00	
500 mm	USD 300.00	USD 376.00		
1000 mm	USD 352.00			

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

Titanium

Ti



Rod

TI007937

Diameter **16mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code
 390-400-846
 800-104-921
 013-124-908
 640-617-607

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	USD 259.00	USD 316.00	USD 410.00
200 mm	USD 290.00	USD 361.00	USD 555.00
500 mm	USD 352.00	USD 523.00	
1000 mm	USD 496.00		

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI007938

Diameter **16mm**
 Temper **As drawn**

High Purity **99.99+%**

Size

Web Code
 501-713-189
 480-926-876
 877-169-973

Length	Quantity	
	1pc	2pcs
25 mm	USD 454.00	USD 591.00
50 mm	USD 567.00	USD 956.00
100 mm	USD 932.00	

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI007940

Diameter **20mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code
 650-810-444
 354-463-169
 307-897-152
 487-146-660
 077-206-463

Length	Quantity		
	1pc	2pcs	5pcs
50 mm	USD 198.00	USD 234.00	POA
100 mm	USD 219.00	USD 265.00	POA
200 mm	USD 250.00	POA	
500 mm	POA		
1000 mm	POA		

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI007941

Diameter **20mm**
 Temper **As drawn**

High Purity **99.99+%**

Size

Web Code
 417-393-521
 049-096-533
 097-147-193

Length	Quantity	
	1pc	2pcs
25 mm	USD 474.00	USD 638.00
50 mm	USD 614.00	USD 1071.00
100 mm	USD 1047.00	

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI007945

Diameter **25mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code
 667-385-278
 570-710-445
 249-765-258
 390-711-673
 894-550-342

Length	Quantity		
	1pc	2pcs	5pcs
50 mm	USD 211.00	USD 253.00	POA
100 mm	USD 238.00	USD 303.00	POA
200 mm	USD 288.00	POA	
500 mm	POA		
1000 mm	POA		

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI007946

Diameter **25mm**
 Temper **As drawn**

High Purity **99.99+%**

Size

Web Code
 373-425-482
 946-302-718

Length	Quantity	
	1pc	2pcs
25 mm	USD 536.00	USD 840.00
50 mm	USD 816.00	

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI007947

Diameter **30mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code
 483-440-583
 330-430-696
 609-494-572
 897-523-046
 210-713-265

Length	Quantity		
	1pc	2pcs	5pcs
50 mm	USD 224.00	USD 271.00	POA
100 mm	USD 256.00	USD 363.00	POA
200 mm	USD 348.00	POA	
500 mm	POA		
1000 mm	POA		

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

Metal – Titanium

Titanium

Ti



Rod

TI007948

Diameter **40mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code
 727-887-547
 177-997-770
 430-360-174
 670-459-346
 336-998-532

Length	Quantity		
	1pc	2pcs	5pcs
50 mm	USD 250.00	USD 341.00	POA
100 mm	USD 326.00	POA	POA
200 mm	POA	POA	POA
500 mm	POA	POA	POA
1000 mm	POA	POA	POA

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI007950

Diameter **50mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code
 368-631-967
 893-334-663
 666-829-969
 353-747-982
 218-490-266
 642-046-246

Length	Quantity		
	1pc	2pcs	5pcs
25 mm	USD 248.00	USD 314.00	POA
50 mm	USD 296.00	POA	POA
100 mm	POA	POA	POA
200 mm	POA	POA	POA
500 mm	POA	POA	POA
1000 mm	POA	POA	POA

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI007955

Diameter **50mm**

High Purity **99.99+%**

Size

Web Code
 311-277-120
 909-639-289

Length	1pc
	10 mm
25 mm	USD 1034.00

Typical Analysis : Al <3, Ca <2, Cr <6, Cu <10, Fe <10, Mg <1, Mn <1, Nb <5, Ni <3, S <1, Si <5, V <3, Zn <1, Zr <3.

TI007975

Diameter **75mm**
 Temper **Annealed**

Purity **99.6+%**

Size

Web Code
 045-504-645
 010-155-025
 289-420-615
 957-338-168
 423-492-152
 299-047-015

Length	Quantity	
	1pc	2pcs
25 mm	USD 290.00	POA
50 mm	POA	POA
100 mm	POA	POA
200 mm	POA	POA
500 mm	POA	POA
1000 mm	POA	POA

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.



Bar

TI008003

Side Length **10mm**
 Purity **99.6+%**

Side Length (of longer side) **12mm**

Size

Web Code
 024-847-271
 871-756-044
 655-568-722
 289-180-194

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 116.00	USD 140.00	USD 193.00	USD 322.00
200 mm	USD 138.00	USD 171.00	USD 318.00	
500 mm	USD 188.00	USD 316.00		
1000 mm	USD 313.00	USD 566.00		

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI008010

Side Length **50mm**
 Purity **99.6+%**

Side Length (of longer side) **50mm**

Size

Web Code
 943-781-460

Length	1pc
	100 mm

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.



Tube

TI007050

Outside Diameter **0.51mm**
 Inside Diameter **0.35mm**
 Temper **Annealed**

Wall Thickness **0.08mm**
 Purity **99.6+%**

Size

Web Code
 139-002-057
 375-258-559
 907-315-054

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	USD 455.00	USD 563.00	USD 996.00
200 mm	USD 547.00	USD 839.00	
500 mm	USD 971.00		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

Titanium

Ti



Tube

TI007054	Outside Diameter.....	0.635mm	Wall Thickness.....	0.152mm		
	Inside Diameter.....	0.331mm	Purity.....	99.6+%		
	Size		Quantity			
	Web Code		Length	1pc	2pcs	5pcs
	809-010-195	100 mm	USD 431.00	USD 530.00	USD 848.00	
	300-931-847	200 mm	USD 514.00	USD 720.00	USD 1440.00	
	100-857-780	500 mm	USD 823.00	USD 1431.00		
	210-542-591	1000 mm	USD 1414.00			
Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.						
TI007060	Outside Diameter.....	0.81mm	Wall Thickness.....	0.1mm		
	Inside Diameter.....	0.61mm	Purity.....	99.6+%		
	Temper.....	As drawn				
	Size		Quantity			
Web Code		Length	1pc	2pcs	5pcs	
	212-007-468	100 mm	USD 431.00	USD 530.00	USD 848.00	
	084-327-266	200 mm	USD 514.00	USD 720.00	USD 1440.00	
	627-380-069	500 mm	USD 823.00	USD 1431.00		
	600-924-567	1000 mm	USD 1414.00			
Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.						
TI007068	Outside Diameter.....	1.00mm	Wall Thickness.....	0.32mm		
	Inside Diameter.....	0.36mm	Purity.....	99.6+%		
	Temper.....	Hard				
	Size		Quantity			
Web Code		Length	10pcs	20pcs	50pcs	100pcs
	307-126-652	20 mm	USD 414.00	USD 591.00	USD 1129.00	USD 2025.00
Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.						
TI007070	Outside Diameter.....	1.05mm	Wall Thickness.....	0.15mm		
	Inside Diameter.....	0.75mm	Purity.....	99.6+%		
	Temper.....	Annealed				
	Size		Quantity			
Web Code		Length	1pc	2pcs	5pcs	
	414-378-307	100 mm	USD 431.00	USD 530.00	USD 848.00	
	797-294-422	200 mm	USD 514.00	USD 720.00	USD 1440.00	
	661-800-346	500 mm	USD 823.00	USD 1431.00		
	328-012-513	1000 mm	USD 1414.00			
Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.						
TI007075	Outside Diameter.....	1.5mm	Wall Thickness.....	0.175mm		
	Inside Diameter.....	1.15mm	Purity.....	99.6+%		
	Temper.....	Hard				
	Size		Quantity			
Web Code		Length	1pc	2pcs	5pcs	
	772-144-387	230 mm	USD 435.00	USD 543.00	USD 743.00	
Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.						
TI007085	Outside Diameter.....	1.6mm	Wall Thickness.....	0.5mm		
	Inside Diameter.....	0.6mm	Purity.....	99.6+%		
	Temper.....	Annealed				
	Size		Quantity			
Web Code		Length	1pc	2pcs	5pcs	
	550-158-262	100 mm	USD 277.00	USD 344.00	USD 574.00	
	054-267-481	200 mm	USD 331.00	USD 487.00	USD 982.00	
	934-343-170	500 mm	USD 556.00	USD 978.00		
	272-244-568	1000 mm	USD 965.00			
Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.						
TI007080	Outside Diameter.....	1.6mm	Wall Thickness.....	0.2mm		
	Inside Diameter.....	1.2mm	Purity.....	99.6+%		
	Temper.....	Hard				
	Size		Quantity			
Web Code		Length	1pc	2pcs	5pcs	
	656-944-268	100 mm	USD 277.00	USD 344.00	USD 574.00	
	492-647-132	200 mm	USD 331.00	USD 487.00	USD 982.00	
	863-991-063	500 mm	USD 556.00	USD 978.00		
	054-380-668	1000 mm	USD 965.00			
Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.						

Titanium

Ti



Tube

TI007101

Outside Diameter **2.03mm**
 Inside Diameter **1.55mm**
 Temper **Annealed**

Wall Thickness **0.24mm**
 Purity **99.6+%**

Size

Web Code

139-154-472
 322-700-154
 295-841-870
 686-703-660

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	USD 246.00	USD 299.00	USD 397.00
200 mm	USD 286.00	USD 357.00	USD 629.00
500 mm	USD 379.00	USD 624.00	
1220 mm	USD 713.00		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI007100

Outside Diameter **2.03mm**
 Inside Diameter **1.63mm**
 Temper **Annealed**

Wall Thickness **0.2mm**
 Purity **99.6+%**

Size

Web Code

725-038-271
 629-775-405
 721-931-142
 173-953-754

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	USD 260.00	USD 319.00	USD 471.00
200 mm	USD 306.00	USD 405.00	USD 778.00
500 mm	USD 454.00	USD 773.00	
1000 mm	USD 760.00		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI007126

Outside Diameter **2.65mm**
 Inside Diameter **2.45mm**
 Temper **Hard**

Wall Thickness **0.1mm**
 Purity **99.6+%**

Size

Web Code

117-672-939

Length	Quantity			
	10pcs	25pcs	50pcs	100pcs
4 mm	USD 241.00	USD 305.00	USD 390.00	USD 544.00

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI007210

Outside Diameter **3.0mm**
 Inside Diameter **1.5mm**
 Temper **Annealed**

Wall Thickness **0.75mm**
 Purity **99.6+%**

Size

Web Code

832-381-277
 047-658-559
 957-319-600
 664-952-794

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 229.00	USD 276.00	USD 369.00	USD 581.00
200 mm	USD 263.00	USD 324.00	USD 573.00	
500 mm	USD 351.00	USD 568.00		
1000 mm	USD 555.00			

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI007250

Outside Diameter **4.25mm**
 Inside Diameter **3.75mm**
 Temper **Annealed**

Wall Thickness **0.25mm**
 Purity **99.6+%**

Size

Web Code

119-099-329
 887-420-548
 927-568-528
 946-070-401

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 222.00	USD 265.00	USD 331.00	USD 439.00
200 mm	USD 252.00	USD 309.00	USD 431.00	USD 705.00
500 mm	USD 314.00	USD 426.00		
1000 mm	USD 413.00	USD 692.00		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI007295

Outside Diameter **6.1mm**
 Inside Diameter **5.1mm**
 Temper **Annealed**

Wall Thickness **0.5mm**
 Purity **99.6+%**

Size

Web Code

481-675-901
 356-826-007
 504-026-630
 206-109-979

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 251.00	USD 306.00	USD 416.00	USD 668.00
200 mm	USD 292.00	USD 363.00	USD 659.00	USD 1155.00
500 mm	USD 397.00	USD 654.00		
1000 mm	USD 640.00	USD 1141.00		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI007350

Outside Diameter **6.35mm**
 Inside Diameter **4.57mm**
 Temper **Annealed**

Wall Thickness **0.89mm**
 Purity **99.6+%**

Size

Web Code

739-151-280
 393-908-800
 238-601-445
 825-177-227

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 245.00	USD 297.00	USD 379.00	USD 590.00
200 mm	USD 282.00	USD 350.00	USD 580.00	
500 mm	USD 358.00	USD 575.00		
1000 mm	USD 560.00			

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

Metal – Titanium

Titanium

Ti



Tube

TI007300

Outside Diameter **6.35mm**
 Inside Diameter **5.53mm**
 Temper **Annealed**

Wall Thickness **0.41mm**
 Purity **99.6+%**

Size

Web Code

258-804-851
 350-610-838
 826-351-383
 293-913-295

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 251.00	USD 306.00	USD 416.00	USD 668.00
200 mm	USD 292.00	USD 363.00	USD 659.00	
500 mm	USD 397.00	USD 654.00		
1000 mm	USD 640.00			

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI007370

Outside Diameter **7.0mm**
 Inside Diameter **5mm**
 Temper **Annealed**

Wall Thickness **1.0mm**
 Purity **99.6+%**

Size

Web Code

223-418-007
 106-208-414
 648-580-126
 036-921-236

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 245.00	USD 297.00	USD 379.00	USD 590.00
200 mm	USD 282.00	USD 350.00	USD 580.00	
500 mm	USD 358.00	USD 575.00		
1000 mm	USD 560.00			

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI007401

Outside Diameter **9.5mm**
 Inside Diameter **8.2mm**
 Temper **Annealed**

Wall Thickness **0.65mm**
 Purity **99.6+%**
 Condition **Lightly Oxidised surface**

Size

Web Code

060-031-005
 635-270-033
 520-055-962
 854-966-646

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 206.00	USD 250.00	USD 294.00	USD 347.00
200 mm	USD 226.00	USD 278.00	USD 338.00	USD 475.00
500 mm	USD 265.00	USD 334.00	USD 537.00	
1000 mm	USD 310.00	USD 462.00		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI007461

Outside Diameter **10mm**
 Inside Diameter **8mm**
 Temper **Annealed**

Wall Thickness **1.0mm**
 Purity **99.6+%**

Size

Web Code

026-656-727
 886-397-128
 640-012-142
 429-596-619

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 230.00	USD 275.00	USD 344.00	USD 478.00
200 mm	USD 261.00	USD 320.00	USD 469.00	
500 mm	USD 324.00	USD 464.00		
1000 mm	USD 450.00			

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI007460

Outside Diameter **10.3mm**
 Inside Diameter **8.7mm**
 Temper **Annealed**

Wall Thickness **0.8mm**
 Purity **99.6+%**

Size

Web Code

284-117-036
 514-633-570
 329-199-253
 149-909-352

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 230.00	USD 275.00	USD 344.00	USD 478.00
200 mm	USD 261.00	USD 320.00	USD 469.00	
500 mm	USD 324.00	USD 464.00		
1000 mm	USD 450.00			

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI007500

Outside Diameter **12.7mm**
 Inside Diameter **10.9mm**
 Temper **Annealed**

Wall Thickness **0.9mm**
 Purity **99.6+%**

Size

Web Code

738-669-986
 333-737-954
 717-241-244
 655-150-249

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 233.00	USD 281.00	USD 352.00	USD 507.00
200 mm	USD 267.00	USD 328.00	USD 499.00	USD 833.00
500 mm	USD 332.00	USD 493.00		
1000 mm	USD 479.00	USD 819.00		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

TI007550

Outside Diameter **25.4mm**
 Inside Diameter **23.62mm**
 Temper **Annealed**

Wall Thickness **0.89mm**
 Purity **99.6+%**

Size

Web Code

893-777-018
 722-128-135
 266-023-212
 252-905-815

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 247.00	USD 297.00	USD 371.00	USD 535.00
200 mm	USD 281.00	USD 345.00	USD 525.00	USD 872.00
500 mm	USD 348.00	USD 519.00		
1000 mm	USD 502.00	USD 855.00		

Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.

Metal – Titanium

Titanium

Ti



Powder

TI006030

Max. Particle size **45micron**
 Condition..... **Grade 1**
 Condition..... **Spherical**

Purity..... **99.5%**
 Condition..... **Gas atomized**



Web Code
 368-465-570

Quantity		1 Pot
Weight		
100 g		USD 529.00

Typical Analysis : C < 100, Chlorides 1700, Fe 200, N < 100, O 1000.

May be suitable for additive manufacturing research and development purposes.

Hazardous goods, additional shipment charges apply which are dependent on destination. Please check the individual item on our website or contact us for further details.

TI006021

Max. Particle size **45micron**
 Condition..... **Grade 2**
 Condition..... **Spherical**

Purity..... **99.5%**
 Condition..... **Gas atomized**



Web Code
 145-365-376
 540-228-344
 528-537-880

Quantity		1 Pot
Weight		
50 g		USD 427.00
100 g		USD 681.00
200 g		USD 1090.00

Typical Analysis : C < 100, Chlorides 1700, Fe 200, N < 100, O 1000.

May be suitable for additive manufacturing research and development purposes.

Hazardous goods, additional shipment charges apply which are dependent on destination. Please check the individual item on our website or contact us for further details.

TI006022

Max. Particle size **75micron**

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



Web Code
 780-284-214
 815-389-828
 563-440-572
 310-743-087

Quantity		1 Pot
Weight		
50 g		USD 315.00
100 g		USD 403.00
200 g		USD 490.00
500 g		USD 817.00

Typical Analysis : C < 100, Chlorides 1700, Fe 200, N < 100, O 1000.

Hazardous goods, additional shipment charges apply which are dependent on destination. Please check the individual item on our website or contact us for further details.

TI006076

Max. Particle size **106micron**
 Condition..... **Grade 2**
 Condition..... **Spherical**

Purity..... **99.5%**
 Condition..... **Gas atomized**



Web Code
 679-009-014

Quantity		1 Pot
Weight		
50 g		USD 354.00

Typical Analysis : C < 100, Chlorides 1700, Fe 200, N < 100, O 1000.

May be suitable for additive manufacturing research and development purposes.

Hazardous goods, additional shipment charges apply which are dependent on destination. Please check the individual item on our website or contact us for further details.

TI006020

Max. Particle size **150micron**

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



Web Code
 051-375-012
 421-878-116
 201-125-457
 734-771-099
 846-380-654

Quantity		1 Pot
Weight		
50 g		USD 250.00
100 g		USD 296.00
200 g		USD 362.00
500 g		USD 495.00
1000 g		USD 842.00

Typical Analysis : C < 100, Chlorides 1700, Fe 200, N < 100, O 1000.

Hazardous goods, additional shipment charges apply which are dependent on destination. Please check the individual item on our website or contact us for further details.

Metal – Titanium

Titanium

Ti



Lump

TI006104 Max. Lump size **4mm** Purity..... **99.6+%**

Web Code	Quantity		1 Pot
	Weight		
744-070-240	20 g		USD 215.00

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

TI006101 Max. Lump size **4mm** High Purity **99.99+%**
 Condition..... **Pellets**

Web Code	Quantity		1 Pot
	Weight		
693-862-822	20 g		USD 303.00
230-788-207	50 g		USD 481.00
691-854-254	100 g		USD 814.00

Typical Analysis : Al <3, Ca <2, Cr <2, Cu <1, Fe <10, Mn <1, Nb <5, Ni <3, Si <5, V <3, Zn <1, Zr <3.
 Nominally 3mm diameter x 3mm length pellets. Please ask for prices for larger quantities.

TI006102 Max. Lump size **6mm** High Purity **99.99+%**
 Condition..... **Pellets**

Web Code	Quantity		1 Pot
	Weight		
466-661-763	20 g		USD 290.00
036-450-754	50 g		USD 428.00
259-017-715	100 g		USD 708.00

Typical Analysis : Al <3, Ca <2, Cr <2, Cu <1, Fe <10, Mn <1, Nb <5, Ni <3, Si <5, V <3, Zn <1, Zr <3.
 Nominally 4.7mm diameter x 4.7mm length pellets. Please ask for prices for larger quantities.

TI006111 Max. Lump size **6mm** High Purity **99.999%**
 Condition..... **Pellets**

Web Code	Quantity		1 Pot
	Weight		
797-622-142	20 g		USD 357.00
421-821-863	50 g		USD 606.00
217-107-759	100 g		USD 1042.00

Typical Analysis : Al 2, Cu 1, Fe 3, Si 1, Sn 1
 Nominally 4.7mm diameter x 4.7mm length pellets. Please ask for prices for larger quantities.

TI006100 Max. Lump size **10mm** High Purity **99.99+%**
 Condition..... **Pellets**

Web Code	Quantity		1 Pot
	Weight		
128-330-856	20 g		USD 255.00
041-351-482	50 g		USD 367.00
168-929-050	100 g		USD 586.00

Typical Analysis : Al <3, Ca <2, Cr <2, Cu <1, Fe <10, Mn <1, Nb <5, Ni <3, Si <5, V <3, Zn <1, Zr <3.
 Pellets - nominal size 9.5mm diameter x 9.5mm length Please ask for prices for larger quantities.

TI006110 Max. Lump size **10mm** High Purity **99.999%**
 Condition..... **Pellets**

Web Code	Quantity		1 Pot
	Weight		
609-177-118	20 g		USD 347.00
147-144-895	50 g		USD 562.00
393-112-098	100 g		USD 955.00

Typical Analysis : Al 2, Cu 1, Fe 3, Si 1, Sn 1
 Pellets - nominal size 9.5mm diameter x 9.5mm length Please ask for prices for larger quantities.



Sphere

TI006830 Diameter..... **3mm** Purity..... **99.6+%**

Web Code	Quantity		1 Pot
	Spheres		
220-739-924	50 pcs		USD 245.00
757-094-570	100 pcs		USD 407.00
347-398-370	200 pcs		USD 720.00

Typical Analysis : Al 500, Co 2, Cr 500, Cu 200, Fe 300, Mg 20, Mn 500, Ni 500, Si 200, Sn 200, Ta 10, V 500.

Metal – Titanium

Titanium

Ti



Single Crystal

TI002122	Oriented (0001) Condition..... Unpolished	Thickness 1mm
Web Code 366-248-096	Quantity Size 3x5	1pc USD POA
TI002120	Oriented (0001) Diameter..... 5mm	Thickness 1mm Condition..... Unpolished
Web Code 769-085-275	Quantity	1pc USD POA
TI002121	Oriented (0001) Diameter..... 8mm	Thickness 1mm Condition..... Unpolished
Web Code 690-308-068	Quantity	1pc USD POA

Metal – Titanium

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