

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

CONTENTS

Introduction	4
Product Descriptions	5
Hazards Information	10
General Information	11
Order information	12
Company Details	15
Conditions of Sale	16
Metal	20
INDEX	48

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 Catalog details those items which are

available from stock. For ceramic components made to customer drawings, our Ceramic and Glass Division would be delighted to help. Please visit www.goodfellow-ceramics.com 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): $< 100\text{mm}$ $\pm 1\text{mm}$
 $\geq 100\text{mm}$ $+2\% / -1\%$



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): $< 100\text{mm}$ $\pm 5\text{mm}$
 $> 100\text{mm}$ $\pm 5\%$



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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Goodfellow Corporation

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USA
A Pennsylvania corporation
EIN 23-2557381

Goodfellow SARL

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Siren : 381486836
Numéro de TVA Intracommunitaire :
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Goodfellow GmbH

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Registered in Friedberg (Hessen) No. HRB 1309
Import VAT number DE112610478

Goodfellow (Shanghai) Trading Co., Ltd

Fl. 23, 758 Nanjing Road West
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200040
The People's Republic of China

Conditions of Sale

1 GENERAL

1.1 In these Conditions:

1.1.1 the following expressions shall have the following meanings:-

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

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

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

2 ORDERS

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

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

3 DESCRIPTION

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

4 SPECIFICATIONS AND INTELLECTUAL PROPERTY

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

5 QUOTATIONS

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

6 PRICE

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

7 DELIVERY

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

Conditions of Sale

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

8 QUANTITIES INSTALMENTS AND STORAGE

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

9 TERMS OF PAYMENT

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

10 SUSPENSION AND CANCELLATION

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

and/or

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

11 INSPECTION AND CLAIMS FOR DEFECTS

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

12 WARRANTY

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

Conditions of Sale

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

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

13 CONSUMER SALES

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

14 TITLE TO GOODS

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

15 RISK AND INSURANCE

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

16 EXPORT TERMS

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

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

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

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

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

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

17 BUYER'S WARRANTIES

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

18 SEVERANCE

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

19 JURISDICTION

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

20 NOTICES

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

21 WAIVER

Conditions of Sale

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

Atomic number	22
Atomic radius - Goldschmidt	0.147 nm
Atomic weight	47.88 amu
Crystal structure	Hexagonal close packed
Electronic structure	Ar 3d ² 4s ²
Photo-electric work function	4.1 eV
Thermal neutron absorption cross-section	6.1 Barns
Valences shown	2, 3, 4

Physical Properties

Boiling point	3287 C
Density @20C	4.5 g cm ⁻³
Melting point	1660 C

Electrical Properties

Electrical resistivity @20C	54 μOhmcm
Temperature coefficient @0-100C	0.0038 K ⁻¹
Superconductivity critical temperature	0.40 K

Natural isotope distribution

Mass No.	%
46	8.0
47	7.5
48	73.7
49	5.5
50	5.3

Thermal Properties

Coefficient of thermal expansion @0-100C	8.9 x10 ⁻⁶ K ⁻¹
Latent heat of evaporation	8893 J g ⁻¹
Latent heat of fusion	365 J g ⁻¹
Specific heat @25C	523 J K ⁻¹ kg ⁻¹
Thermal conductivity @0-100C	21.9 W m ⁻¹ K ⁻¹

Ionisation potential

No.	eV
1	6.82
2	13.6
3	27.5
4	43.3
5	99.2
6	119

Mechanical Properties

Material condition	Annealed	Polycrystalline
Bulk modulus	108.4	GPa
Hardness - Vickers	60	
Izod toughness	61 J m ⁻¹	
Poisson's ratio	0.361	
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**

Web Code		Quantity			
059-252-810	Disc diam.	1 disc	2discs	5discs	10discs
825-798-434	10 mm	EUR 272.00	EUR 370.00	EUR 662.00	EUR 1052.00
	25 mm	EUR 402.00	EUR 565.00	EUR 1052.00	EUR 1702.00

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**

Web Code		Quantity			
525-512-225	Disc diam.	1 disc	2discs	5discs	10discs
129-297-443	10 mm	EUR 301.00	EUR 414.00	EUR 750.00	EUR 1199.00
	25 mm	EUR 451.00	EUR 638.00	EUR 1199.00	EUR 1946.00

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**

Web Code		Quantity			
139-599-398	Disc diam.	1 disc	2discs	5discs	10discs
239-166-185	10 mm	EUR 321.00	EUR 443.00	EUR 809.00	EUR 1296.00
	25 mm	EUR 484.00	EUR 687.00	EUR 1296.00	EUR 2109.00

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**

Web Code		Quantity			
060-822-869	Disc diam.	1 disc	2discs	5discs	10discs
356-832-183	10 mm	EUR 370.00	EUR 516.00	EUR 955.00	EUR 1540.00
	25 mm	EUR 565.00	EUR 809.00	EUR 1540.00	EUR 2515.00

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

Web Code
 912-066-045
 086-830-273

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 741.00	EUR 1018.00	EUR 1584.00
50 x 50 mm	EUR 1375.00	EUR 1915.00	

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

Web Code
 079-450-947
 882-226-421

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 467.00	EUR 622.00	EUR 939.00
50 x 50 mm	EUR 820.00	EUR 1121.00	

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

Web Code
 045-468-855
 645-780-331

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 674.00	EUR 923.00	EUR 1435.00
50 x 50 mm	EUR 1241.00	EUR 1726.00	

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

Web Code
 688-203-858
 060-778-536

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 449.00	EUR 597.00	EUR 899.00
50 x 50 mm	EUR 784.00	EUR 1070.00	

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

Web Code
 536-162-812
 825-766-602

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 432.00	EUR 573.00	EUR 860.00
50 x 50 mm	EUR 750.00	EUR 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.

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

NLT Sizes

Web Code
 104-119-736
 292-868-505
 224-731-655

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 398.00	EUR 525.00	EUR 784.00
50 x 50 mm	EUR 682.00	EUR 925.00	
100 x 100 mm	EUR 1549.00		

Sizes LT

Web Code
 785-692-968
 002-536-064
 887-413-343

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 438.00	EUR 577.00	EUR 863.00
50 x 50 mm	EUR 818.00	EUR 1110.00	
100 x 100 mm	EUR 2323.00		

Discs

Web Code
 132-291-866
 536-487-144
 060-894-747
 611-840-001
 480-006-974

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	EUR 410.00	EUR 509.00	EUR 740.00
6 mm	EUR 490.00	EUR 623.00	EUR 924.00
8 mm	EUR 571.00	EUR 739.00	EUR 1110.00
10 mm	EUR 652.00	EUR 855.00	EUR 1299.00
15 mm	EUR 852.00	EUR 1139.00	

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

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	EUR 305.00	EUR 377.00	EUR 522.00
50 x 50 mm	EUR 471.00	EUR 611.00	
100 x 100 mm	EUR 1062.00		

Sizes LT

Web Code

270-344-449

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 335.00	EUR 414.00	EUR 574.00

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	EUR 363.00	EUR 441.00	EUR 591.00
6 mm	EUR 414.00	EUR 515.00	EUR 709.00
8 mm	EUR 466.00	EUR 589.00	EUR 830.00
10 mm	EUR 519.00	EUR 664.00	EUR 952.00
15 mm	EUR 646.00	EUR 846.00	

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**
 Temper **As rolled**

High Purity **99.99+%**

NLT Sizes

Web Code

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

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 496.00	EUR 687.00	EUR 1125.00
50 x 50 mm	EUR 812.00	EUR 1133.00	
100 x 100 mm	EUR 1443.00		

Sizes LT

Web Code

501-822-204
 224-191-870

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 546.00	EUR 755.00	EUR 1237.00
50 x 50 mm	EUR 1015.00	EUR 1416.00	

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	EUR 363.00	EUR 475.00
50 x 50 mm	EUR 611.00	EUR 826.00
100 x 100 mm	EUR 1474.00	

Sizes LT

Web Code

410-260-256
 769-784-123

Size	Quantity	
	1pc	2pcs
25 x 25 mm	EUR 400.00	EUR 523.00
50 x 50 mm	EUR 673.00	EUR 909.00

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	EUR 390.00	EUR 481.00	EUR 696.00
6 mm	EUR 461.00	EUR 582.00	EUR 858.00
8 mm	EUR 531.00	EUR 683.00	EUR 1021.00
10 mm	EUR 603.00	EUR 786.00	EUR 1188.00
15 mm	EUR 778.00	EUR 1034.00	

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	EUR 361.00	EUR 472.00	EUR 701.00	EUR 999.00
50 x 50 mm	EUR 607.00	EUR 819.00	EUR 1818.00	
100 x 100 mm	EUR 1449.00	EUR 2792.00		
150 x 150 mm	EUR 3116.00			

Sizes LT

Web Code

769-480-263
 397-971-951

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 397.00	EUR 519.00	EUR 771.00	EUR 1099.00
50 x 50 mm	EUR 668.00	EUR 901.00	EUR 2000.00	

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	EUR 389.00	EUR 479.00	EUR 693.00
6 mm	EUR 459.00	EUR 579.00	EUR 853.00
8 mm	EUR 529.00	EUR 679.00	EUR 1015.00
10 mm	EUR 600.00	EUR 781.00	EUR 1180.00
15 mm	EUR 773.00	EUR 1027.00	EUR 2077.00
25 mm	EUR 1184.00		

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 EUR 722.00
 0.3 m EUR 977.00

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

Size	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 348.00	EUR 453.00	EUR 671.00	EUR 972.00
50 x 50 mm	EUR 581.00	EUR 782.00	EUR 1763.00	
100 x 100 mm	EUR 1404.00	EUR 2703.00		
150 x 150 mm	EUR 3016.00			

Sizes LT

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

Size

Quantity

Size	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 383.00	EUR 499.00	EUR 739.00	EUR 1069.00
50 x 50 mm	EUR 639.00	EUR 861.00	EUR 1939.00	

Discs

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

Diameter

Quantity

Diameter	10 discs	20 discs	50 discs
4 mm	EUR 381.00	EUR 469.00	EUR 677.00
6 mm	EUR 448.00	EUR 563.00	EUR 828.00
8 mm	EUR 514.00	EUR 658.00	EUR 982.00
10 mm	EUR 581.00	EUR 755.00	EUR 1138.00
15 mm	EUR 745.00	EUR 988.00	EUR 2021.00
25 mm	EUR 1153.00	EUR 2089.00	

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

Size	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 336.00	EUR 437.00	EUR 645.00	EUR 952.00
50 x 50 mm	EUR 557.00	EUR 753.00	EUR 1723.00	
100 x 100 mm	EUR 1373.00	EUR 2639.00		
150 x 150 mm	EUR 2945.00			

Sizes LT

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

Size

Quantity

Size	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 370.00	EUR 480.00	EUR 710.00	EUR 1047.00
50 x 50 mm	EUR 613.00	EUR 828.00	EUR 1895.00	

Discs

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

Diameter

Quantity

Diameter	10 discs	20 discs	50 discs
4 mm	EUR 375.00	EUR 460.00	EUR 662.00
6 mm	EUR 438.00	EUR 549.00	EUR 806.00
8 mm	EUR 501.00	EUR 640.00	EUR 952.00
10 mm	EUR 565.00	EUR 731.00	EUR 1105.00
15 mm	EUR 721.00	EUR 953.00	EUR 1981.00
25 mm	EUR 1131.00	EUR 2044.00	

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
 518-088-674
 985-450-125

Size

Quantity

Size	1pc	2pcs	5pcs	10pcs	20pcs
100 x 100 mm	EUR 377.00	EUR 480.00	EUR 690.00	EUR 938.00	
150 x 150 mm	EUR 494.00	EUR 646.00	EUR 953.00		
200 x 200 mm	EUR 611.00	EUR 812.00			

Sizes LT

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

Size

Quantity

Size	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 201.00	EUR 231.00	EUR 297.00	EUR 381.00	EUR 518.00
50 x 50 mm	EUR 259.00	EUR 314.00	EUR 428.00	EUR 567.00	EUR 780.00
100 x 100 mm	EUR 414.00	EUR 528.00	EUR 759.00	EUR 1031.00	

Coil

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

Width 150mm

Quantity

Length 1 Reel
 0.2 m EUR 579.00
 0.3 m EUR 670.00
 0.5 m EUR 815.00
 1 m EUR 1081.00

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

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	EUR 798.00	EUR 1100.00	
100 x 100 mm	EUR 1491.00		

Sizes LT

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

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 452.00	EUR 611.00	EUR 940.00
50 x 50 mm	EUR 878.00	EUR 1210.00	
100 x 100 mm	EUR 1863.00		

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	EUR 491.00	EUR 714.00	EUR 915.00
6 mm	EUR 580.00	EUR 840.00	EUR 1116.00
8 mm	EUR 669.00	EUR 967.00	EUR 1321.00
10 mm	EUR 759.00	EUR 1095.00	EUR 1527.00
15 mm	EUR 980.00	EUR 1409.00	
25 mm	EUR 1424.00		

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	EUR 370.00	EUR 470.00	EUR 676.00	EUR 917.00	
200 x 200 mm	EUR 598.00	EUR 793.00	EUR 1185.00		

Sizes LT

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

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 199.00	EUR 229.00	EUR 293.00	EUR 376.00	EUR 510.00
50 x 50 mm	EUR 256.00	EUR 309.00	EUR 421.00	EUR 556.00	EUR 765.00
100 x 100 mm	EUR 407.00	EUR 517.00	EUR 743.00	EUR 1008.00	

Coil

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

Length	Quantity
	1 Reel
0.2 m	EUR 632.00
0.3 m	EUR 735.00
0.5 m	EUR 899.00
1 m	EUR 1200.00

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	EUR 366.00	EUR 451.00	EUR 545.00
6 mm	EUR 383.00	EUR 476.00	EUR 584.00
8 mm	EUR 400.00	EUR 501.00	EUR 623.00
10 mm	EUR 418.00	EUR 525.00	EUR 661.00
15 mm	EUR 461.00	EUR 586.00	EUR 758.00
25 mm	EUR 547.00	EUR 709.00	EUR 952.00
50 mm	EUR 764.00	EUR 1016.00	

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	EUR 325.00	EUR 403.00	EUR 559.00	EUR 739.00	
150 x 150 mm	EUR 416.00	EUR 532.00	EUR 763.00		
279 x 300 mm	EUR 670.00	EUR 891.00			

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	EUR 188.00	EUR 209.00	EUR 253.00	EUR 306.00	EUR 387.00
50 x 50 mm	EUR 233.00	EUR 273.00	EUR 355.00	EUR 450.00	EUR 591.00
100 x 100 mm	EUR 357.00	EUR 443.00	EUR 615.00	EUR 813.00	
150 x 150 mm	EUR 499.00	EUR 638.00	EUR 916.00		
279 x 300 mm	EUR 838.00	EUR 1114.00			

Coil

Web Code
 046-933-275

Length	Quantity
	1 Reel
0.5 m	EUR 861.00

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

TI000230

Thickness **0.015mm**

Purity **99.6+%**

Size

Web Code

603-751-240
 468-903-772
 612-965-543
 620-688-883
 586-105-160

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			
EUR	173.00	EUR	194.00	EUR	237.00	EUR	289.00	EUR	369.00
EUR	218.00	EUR	257.00	EUR	337.00	EUR	430.00	EUR	569.00
EUR	307.00	EUR	383.00	EUR	537.00	EUR	713.00		
EUR	396.00	EUR	510.00	EUR	736.00				
EUR	664.00	EUR	889.00						

Coil

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

Width 266mm
Length
 0.5 m
 1 m

Quantity

1 Reel
 EUR 814.00
 EUR 1085.00

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	
EUR	267.00	EUR	304.00	EUR	391.00
EUR	280.00	EUR	323.00	EUR	421.00
EUR	294.00	EUR	342.00	EUR	452.00
EUR	308.00	EUR	361.00	EUR	482.00
EUR	341.00	EUR	409.00	EUR	558.00
EUR	409.00	EUR	505.00	EUR	710.00
EUR	579.00	EUR	746.00	EUR	1092.00

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
 668-378-536
 547-313-928
 414-247-804

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

		Quantity							
		1pc	2pcs	5pcs	10pcs	20pcs			
EUR	167.00	EUR	189.00	EUR	233.00	EUR	287.00	EUR	369.00
EUR	214.00	EUR	254.00	EUR	337.00	EUR	433.00	EUR	576.00
EUR	306.00	EUR	385.00	EUR	543.00	EUR	725.00	EUR	989.00
EUR	399.00	EUR	516.00	EUR	750.00	EUR	1018.00		
EUR	574.00	EUR	764.00	EUR	1174.00				

Coil

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

Width 181mm
Length
 0.5 m
 1 m
 2 m

Quantity

EUR 712.00
 EUR 943.00
 EUR 1416.00

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	
EUR	259.00	EUR	296.00	EUR	384.00
EUR	273.00	EUR	316.00	EUR	416.00
EUR	287.00	EUR	336.00	EUR	447.00
EUR	301.00	EUR	356.00	EUR	479.00
EUR	336.00	EUR	406.00	EUR	558.00
EUR	407.00	EUR	505.00	EUR	715.00
EUR	583.00	EUR	755.00	EUR	1110.00

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	
EUR	289.00	EUR	375.00	EUR	551.00
EUR	484.00	EUR	711.00		
EUR	1318.00				

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

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	EUR 118.00	EUR 134.00	EUR 172.00	EUR 227.00	EUR 297.00
50 x 50 mm	EUR 137.00	EUR 161.00	EUR 215.00	EUR 288.00	EUR 383.00
100 x 100 mm	EUR 176.00	EUR 216.00	EUR 301.00	EUR 410.00	EUR 556.00
150 x 150 mm	EUR 215.00	EUR 270.00	EUR 388.00	EUR 533.00	
300 x 300 mm	EUR 331.00	EUR 434.00	EUR 647.00		

Coil

Web Code

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

Width 305mm

Length	1 Reel
	0.5 m
1 m	EUR 546.00
2 m	EUR 796.00

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	EUR 273.00	EUR 332.00	EUR 502.00
6 mm	EUR 279.00	EUR 340.00	EUR 516.00
8 mm	EUR 285.00	EUR 348.00	EUR 529.00
10 mm	EUR 291.00	EUR 357.00	EUR 542.00
15 mm	EUR 305.00	EUR 377.00	EUR 575.00
25 mm	EUR 335.00	EUR 419.00	EUR 640.00
50 mm	EUR 408.00	EUR 523.00	EUR 805.00

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	EUR 133.00	EUR 142.00	EUR 162.00	EUR 188.00	EUR 232.00
50 x 50 mm	EUR 149.00	EUR 165.00	EUR 199.00	EUR 241.00	EUR 307.00
100 x 100 mm	EUR 183.00	EUR 213.00	EUR 274.00	EUR 347.00	EUR 456.00
150 x 150 mm	EUR 216.00	EUR 260.00	EUR 349.00	EUR 453.00	EUR 606.00
200 x 300 mm	EUR 280.00	EUR 350.00	EUR 491.00		

Coil

Web Code

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

Width 200mm

Length	1 Reel
	0.5 m
1 m	EUR 450.00
2 m	EUR 575.00

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	EUR 218.00	EUR 243.00	EUR 304.00
6 mm	EUR 223.00	EUR 249.00	EUR 314.00
8 mm	EUR 227.00	EUR 255.00	EUR 323.00
10 mm	EUR 231.00	EUR 261.00	EUR 333.00
15 mm	EUR 242.00	EUR 276.00	EUR 357.00
25 mm	EUR 263.00	EUR 306.00	EUR 404.00
50 mm	EUR 316.00	EUR 381.00	EUR 523.00

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	EUR 274.00	EUR 354.00	EUR 519.00
50 x 50 mm	EUR 455.00	EUR 676.00	
100 x 100 mm	EUR 1248.00		

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	EUR 106.00	EUR 118.00	EUR 149.00	EUR 191.00	EUR 241.00
50 x 50 mm	EUR 123.00	EUR 144.00	EUR 189.00	EUR 248.00	EUR 321.00
100 x 100 mm	EUR 159.00	EUR 194.00	EUR 269.00	EUR 361.00	EUR 481.00
150 x 150 mm	EUR 195.00	EUR 245.00	EUR 349.00	EUR 475.00	
300 x 300 mm	EUR 303.00	EUR 397.00	EUR 589.00		

Coil

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

Length	Quantity
	1 Reel
0.5 m	EUR 399.00
1 m	EUR 515.00
2 m	EUR 680.00

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	EUR 218.00	EUR 248.00	EUR 334.00
6 mm	EUR 223.00	EUR 255.00	EUR 344.00
8 mm	EUR 227.00	EUR 261.00	EUR 355.00
10 mm	EUR 232.00	EUR 268.00	EUR 365.00
15 mm	EUR 243.00	EUR 284.00	EUR 390.00
25 mm	EUR 266.00	EUR 316.00	EUR 441.00
50 mm	EUR 323.00	EUR 396.00	EUR 568.00

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	5pcs	10pcs
100 x 100 mm	EUR 242.00	EUR 407.00	EUR 535.00
150 x 200 mm	EUR 335.00	EUR 614.00	EUR 828.00
200 x 300 mm	EUR 426.00	EUR 817.00	

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	EUR 226.00	EUR 254.00	EUR 321.00
6 mm	EUR 234.00	EUR 265.00	EUR 339.00
8 mm	EUR 242.00	EUR 277.00	EUR 357.00
10 mm	EUR 250.00	EUR 288.00	EUR 375.00
15 mm	EUR 270.00	EUR 316.00	EUR 420.00
25 mm	EUR 310.00	EUR 373.00	EUR 509.00
50 mm	EUR 410.00	EUR 515.00	EUR 735.00

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	EUR 140.00	EUR 152.00	EUR 177.00	EUR 210.00	EUR 263.00
50 x 50 mm	EUR 163.00	EUR 185.00	EUR 230.00	EUR 285.00	EUR 369.00
100 x 100 mm	EUR 211.00	EUR 252.00	EUR 336.00	EUR 435.00	EUR 580.00
150 x 150 mm	EUR 258.00	EUR 319.00	EUR 442.00	EUR 585.00	EUR 792.00
300 x 300 mm	EUR 400.00	EUR 520.00	EUR 760.00		

Coil

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

Length	Quantity
	1 Reel
0.5 m	EUR 520.00
1 m	EUR 674.00
2 m	EUR 891.00

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	EUR 222.00	EUR 248.00	EUR 312.00
6 mm	EUR 228.00	EUR 257.00	EUR 326.00
8 mm	EUR 234.00	EUR 265.00	EUR 339.00
10 mm	EUR 240.00	EUR 274.00	EUR 353.00
15 mm	EUR 255.00	EUR 295.00	EUR 386.00
25 mm	EUR 285.00	EUR 337.00	EUR 453.00
50 mm	EUR 360.00	EUR 444.00	EUR 622.00

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

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	EUR 369.00	EUR 476.00	EUR 690.00	EUR 962.00
200 x 300 mm	EUR 473.00	EUR 624.00	EUR 951.00	

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	EUR 228.00	EUR 257.00	EUR 327.00
6 mm	EUR 238.00	EUR 271.00	EUR 348.00
8 mm	EUR 247.00	EUR 284.00	EUR 368.00
10 mm	EUR 256.00	EUR 297.00	EUR 389.00
15 mm	EUR 279.00	EUR 329.00	EUR 441.00
25 mm	EUR 325.00	EUR 395.00	EUR 544.00
50 mm	EUR 441.00	EUR 559.00	EUR 804.00

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	EUR 145.00	EUR 158.00	EUR 187.00	EUR 223.00	EUR 280.00
50 x 50 mm	EUR 172.00	EUR 197.00	EUR 248.00	EUR 308.00	EUR 401.00
100 x 100 mm	EUR 226.00	EUR 273.00	EUR 369.00	EUR 480.00	
150 x 150 mm	EUR 280.00	EUR 350.00	EUR 490.00		
300 x 300 mm	EUR 443.00	EUR 579.00			

Coil

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

Length	Quantity
	1 Reel
0.5 m	EUR 571.00
1 m	EUR 745.00

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	EUR 226.00	EUR 253.00	EUR 318.00
6 mm	EUR 232.00	EUR 262.00	EUR 334.00
8 mm	EUR 239.00	EUR 272.00	EUR 349.00
10 mm	EUR 246.00	EUR 282.00	EUR 364.00
15 mm	EUR 263.00	EUR 306.00	EUR 403.00
25 mm	EUR 298.00	EUR 355.00	EUR 479.00
50 mm	EUR 383.00	EUR 476.00	EUR 672.00

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	EUR 226.00	EUR 286.00	EUR 461.00
50 x 50 mm	EUR 370.00	EUR 653.00	
100 x 100 mm	EUR 1203.00		

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	EUR 283.00	EUR 364.00	EUR 477.00
6 mm	EUR 318.00	EUR 414.00	EUR 558.00
8 mm	EUR 353.00	EUR 465.00	EUR 696.00
10 mm	EUR 389.00	EUR 517.00	EUR 908.00
15 mm	EUR 476.00	EUR 783.00	

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	EUR 109.00	EUR 121.00	EUR 150.00	EUR 191.00	EUR 265.00
50 x 50 mm	EUR 125.00	EUR 144.00	EUR 186.00	EUR 242.00	EUR 337.00
100 x 100 mm	EUR 158.00	EUR 190.00	EUR 258.00	EUR 345.00	EUR 482.00
150 x 150 mm	EUR 190.00	EUR 235.00	EUR 331.00	EUR 447.00	
200 x 300 mm	EUR 251.00	EUR 322.00	EUR 508.00		
292 x 300 mm	EUR 284.00	EUR 369.00			

Coil

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

Width 292mm

Length	1 Reel
	0.5 m
1 m	EUR 472.00

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	EUR 223.00	EUR 278.00	EUR 339.00
6 mm	EUR 227.00	EUR 284.00	EUR 349.00
8 mm	EUR 231.00	EUR 290.00	EUR 358.00
10 mm	EUR 235.00	EUR 296.00	EUR 367.00
15 mm	EUR 245.00	EUR 310.00	EUR 390.00
25 mm	EUR 266.00	EUR 339.00	EUR 436.00
50 mm	EUR 317.00	EUR 412.00	EUR 551.00

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	EUR 110.00	EUR 123.00	EUR 153.00	EUR 196.00	EUR 271.00
50 x 50 mm	EUR 128.00	EUR 148.00	EUR 193.00	EUR 251.00	EUR 350.00
100 x 100 mm	EUR 163.00	EUR 198.00	EUR 271.00	EUR 363.00	EUR 507.00
150 x 150 mm	EUR 199.00	EUR 248.00	EUR 350.00	EUR 474.00	
160 x 300 mm	EUR 247.00	EUR 316.00	EUR 459.00		
300 x 300 mm	EUR 304.00	EUR 397.00			

Coil

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

Width 305mm

Length	1 Reel
	0.5 m
1 m	EUR 505.00

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	EUR 223.00	EUR 280.00	EUR 341.00
6 mm	EUR 228.00	EUR 286.00	EUR 351.00
8 mm	EUR 232.00	EUR 292.00	EUR 361.00
10 mm	EUR 237.00	EUR 298.00	EUR 371.00
15 mm	EUR 248.00	EUR 314.00	EUR 396.00
25 mm	EUR 270.00	EUR 346.00	EUR 446.00
50 mm	EUR 326.00	EUR 425.00	EUR 572.00

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	EUR 156.00	EUR 188.00	EUR 256.00	EUR 341.00
100 x 100 mm	EUR 220.00	EUR 278.00	EUR 398.00	
200 x 300 mm	EUR 404.00	EUR 538.00		

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	EUR 116.00	EUR 131.00	EUR 166.00	EUR 214.00	EUR 296.00
50 x 50 mm	EUR 139.00	EUR 164.00	EUR 218.00	EUR 287.00	EUR 400.00
100 x 100 mm	EUR 186.00	EUR 230.00	EUR 322.00	EUR 434.00	
150 x 150 mm	EUR 232.00	EUR 295.00	EUR 426.00		
300 x 300 mm	EUR 372.00	EUR 493.00			

Coil

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

Width **300mm**

Length	1 Reel
	0.5 m
1 m	EUR 598.00

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	EUR 226.00	EUR 284.00	EUR 372.00
6 mm	EUR 232.00	EUR 292.00	EUR 385.00
8 mm	EUR 238.00	EUR 300.00	EUR 398.00
10 mm	EUR 244.00	EUR 309.00	EUR 411.00
15 mm	EUR 259.00	EUR 329.00	EUR 444.00
25 mm	EUR 288.00	EUR 371.00	EUR 511.00
50 mm	EUR 362.00	EUR 476.00	EUR 677.00

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	EUR 118.00	EUR 134.00	EUR 170.00	EUR 220.00	EUR 305.00
50 x 50 mm	EUR 143.00	EUR 170.00	EUR 227.00	EUR 300.00	EUR 418.00
100 x 100 mm	EUR 194.00	EUR 241.00	EUR 340.00	EUR 460.00	
150 x 150 mm	EUR 245.00	EUR 313.00	EUR 453.00		
300 x 300 mm	EUR 396.00	EUR 527.00			

Coil

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

Width **305mm**

Length	1 Reel
	0.5 m
1 m	EUR 647.00

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	EUR 227.00	EUR 285.00	EUR 374.00
6 mm	EUR 234.00	EUR 294.00	EUR 388.00
8 mm	EUR 240.00	EUR 303.00	EUR 403.00
10 mm	EUR 247.00	EUR 312.00	EUR 417.00
15 mm	EUR 263.00	EUR 335.00	EUR 453.00
25 mm	EUR 295.00	EUR 380.00	EUR 525.00
50 mm	EUR 375.00	EUR 495.00	EUR 707.00

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	EUR 200.00	EUR 250.00	EUR 354.00
150 x 150 mm	EUR 254.00	EUR 326.00	EUR 475.00
300 x 300 mm	EUR 416.00	EUR 555.00	

Coil

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

Width **300mm**

Length	1 Reel
	0.5 m
1 m	EUR 678.00

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	EUR 228.00	EUR 286.00	EUR 376.00
6 mm	EUR 235.00	EUR 296.00	EUR 391.00
8 mm	EUR 242.00	EUR 306.00	EUR 407.00
10 mm	EUR 249.00	EUR 315.00	EUR 422.00
15 mm	EUR 266.00	EUR 339.00	EUR 460.00
25 mm	EUR 300.00	EUR 388.00	EUR 537.00
50 mm	EUR 386.00	EUR 509.00	EUR 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.

Titanium

Ti



Foil

TI000418

Thickness **0.3mm**
 Purity **99.6+%**

Coil width **300mm**
 Temper **Annealed**

Coil

Width 300mm

Quantity

Web Code

Length

1 Reel

788-514-810

0.5 m

EUR POA

509-879-972

1 m

EUR POA

371-828-106

2 m

EUR 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.

TI000419

Thickness **0.35mm**
 Temper **Annealed**

Purity **99.6+%**
 Condition **Platinised on both sides**

Size

Quantity

Web Code

Size

1pc

386-456-572

100 x 100 mm

EUR 571.00

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**
 Condition **Ion Implanted**

Purity **99.6+%**

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**
 Temper **Annealed**

Purity **99.6+%**
 Condition **Polished on both sides**

Size

Quantity

Web Code

Size

1pc

2pcs

5pcs

772-974-842

100 x 100 mm

EUR 209.00

EUR 269.00

EUR 408.00

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**
 Surface treatment **Titanium Nitride coating 2-3 microns**

Purity **99.6+%**

Size

Quantity

Web Code

Size

1pc

2pcs

5pcs

541-806-825

25 x 25 mm

EUR 168.00

EUR 204.00

EUR 282.00

725-858-944

50 x 50 mm

EUR 243.00

EUR 310.00

732-369-991

100 x 100 mm

EUR 393.00

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**
 Temper **Annealed**

Purity **99.6+%**

Size

Quantity

Web Code

Size

1pc

2pcs

5pcs

10pcs

20pcs

395-215-502

25 x 25 mm

EUR 111.00

EUR 125.00

EUR 156.00

EUR 201.00

EUR 252.00

401-947-946

50 x 50 mm

EUR 130.00

EUR 150.00

EUR 197.00

EUR 259.00

EUR 333.00

243-490-913

100 x 100 mm

EUR 166.00

EUR 202.00

EUR 278.00

EUR 374.00

436-363-166

150 x 150 mm

EUR 202.00

EUR 253.00

EUR 359.00

545-396-026

300 x 300 mm

EUR 311.00

EUR 454.00

Discs

Quantity

Web Code

Diameter

10 discs

20 discs

50 discs

174-503-000

4 mm

EUR 246.00

EUR 282.00

EUR 388.00

812-883-333

6 mm

EUR 251.00

EUR 290.00

EUR 401.00

610-424-962

8 mm

EUR 257.00

EUR 298.00

EUR 413.00

303-115-363

10 mm

EUR 262.00

EUR 306.00

EUR 425.00

889-416-404

15 mm

EUR 276.00

EUR 325.00

EUR 456.00

177-058-647

25 mm

EUR 304.00

EUR 365.00

EUR 518.00

132-334-408

50 mm

EUR 373.00

EUR 463.00

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**
 Temper **Annealed**

Purity **99.6+%**
 Condition **Polished on 1 side**

Size

Quantity

Web Code

Size

1pc

2pcs

5pcs

10pcs

832-171-022

10 x 10 mm

EUR 194.00

EUR 241.00

EUR 359.00

EUR 629.00

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	EUR 120.00	EUR 131.00	EUR 154.00	EUR 183.00	EUR 231.00
50 x 50 mm	EUR 140.00	EUR 159.00	EUR 199.00	EUR 248.00	EUR 322.00
100 x 100 mm	EUR 181.00	EUR 217.00	EUR 290.00	EUR 376.00	
150 x 150 mm	EUR 222.00	EUR 274.00	EUR 381.00		
300 x 300 mm	EUR 344.00	EUR 447.00			
500 x 500 mm	EUR 506.00				

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	EUR 211.00	EUR 239.00	EUR 308.00
6 mm	EUR 216.00	EUR 247.00	EUR 321.00
8 mm	EUR 222.00	EUR 255.00	EUR 333.00
10 mm	EUR 228.00	EUR 263.00	EUR 346.00
15 mm	EUR 242.00	EUR 283.00	EUR 378.00
25 mm	EUR 270.00	EUR 323.00	EUR 441.00
50 mm	EUR 341.00	EUR 424.00	EUR 601.00

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	EUR 249.00	EUR 332.00	EUR 512.00
50 x 50 mm	EUR 378.00	EUR 552.00	
100 x 100 mm	EUR 924.00		

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	EUR 471.00	EUR 665.00	EUR 1218.00
6 mm	EUR 507.00	EUR 717.00	EUR 1302.00
8 mm	EUR 544.00	EUR 770.00	EUR 1388.00
10 mm	EUR 581.00	EUR 824.00	EUR 1518.00
15 mm	EUR 672.00	EUR 971.00	

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	EUR 393.00	EUR 536.00
50 x 50 mm	EUR 767.00	

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	EUR 553.00	EUR 782.00	EUR 1406.00
6 mm	EUR 631.00	EUR 895.00	
8 mm	EUR 711.00	EUR 1010.00	
10 mm	EUR 792.00		

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	EUR 163.00	EUR 197.00	EUR 271.00	EUR 362.00
50 x 50 mm	EUR 233.00	EUR 297.00	EUR 428.00	
100 x 100 mm	EUR 374.00			

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	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 107.00	EUR 124.00	EUR 167.00	EUR 233.00	EUR 357.00
50 x 50 mm	EUR 122.00	EUR 144.00	EUR 200.00	EUR 279.00	EUR 422.00
100 x 100 mm	EUR 151.00	EUR 186.00	EUR 265.00	EUR 371.00	
150 x 150 mm	EUR 180.00	EUR 227.00	EUR 330.00		
300 x 300 mm	EUR 268.00	EUR 391.00			
500 x 500 mm	EUR 493.00				

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	Quantity		
	10 discs	20 discs	50 discs
4 mm	EUR 282.00	EUR 401.00	EUR 580.00
6 mm	EUR 286.00	EUR 407.00	EUR 589.00
8 mm	EUR 290.00	EUR 412.00	EUR 599.00
10 mm	EUR 295.00	EUR 418.00	EUR 608.00
15 mm	EUR 305.00	EUR 433.00	EUR 631.00
25 mm	EUR 325.00	EUR 461.00	EUR 676.00
50 mm	EUR 376.00	EUR 534.00	EUR 792.00

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	Quantity		
	1pc	2pcs	5pcs
150 x 150 mm	EUR 253.00	EUR 319.00	EUR 452.00
300 x 300 mm	EUR 407.00	EUR 550.00	

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	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 126.00	EUR 139.00	EUR 167.00	EUR 202.00	EUR 257.00
50 x 50 mm	EUR 152.00	EUR 176.00	EUR 225.00	EUR 284.00	EUR 374.00
100 x 100 mm	EUR 204.00	EUR 249.00	EUR 342.00	EUR 449.00	
150 x 150 mm	EUR 256.00	EUR 323.00	EUR 458.00		
300 x 300 mm	EUR 413.00	EUR 637.00			

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	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	EUR 171.00	EUR 206.00	EUR 282.00	EUR 375.00
50 x 50 mm	EUR 244.00	EUR 309.00	EUR 444.00	
100 x 100 mm	EUR 389.00			

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	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 128.00	EUR 141.00	EUR 170.00	EUR 207.00	EUR 265.00
50 x 50 mm	EUR 155.00	EUR 180.00	EUR 233.00	EUR 295.00	EUR 389.00
100 x 100 mm	EUR 211.00	EUR 259.00	EUR 357.00	EUR 471.00	
150 x 150 mm	EUR 267.00	EUR 338.00	EUR 481.00		
300 x 300 mm	EUR 433.00	EUR 579.00			
500 x 500 mm	EUR 763.00				

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.

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	Quantity		
	1pc	2pcs	5pcs
50 x 50 mm	EUR 167.00	EUR 197.00	EUR 259.00
100 x 100 mm	EUR 234.00	EUR 292.00	EUR 409.00
150 x 150 mm	EUR 302.00	EUR 387.00	
190 x 300 mm	EUR 421.00		
300 x 300 mm	EUR 503.00		

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

TI000500

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

High Purity **99.99+%**

Size

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

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	EUR 260.00	EUR 347.00	EUR 536.00
50 x 50 mm	EUR 398.00	EUR 620.00	
100 x 100 mm	EUR 1060.00		

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	Quantity
	10 pcs
26 mm	EUR 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	Quantity
	1pc
150 x 150 mm	POA
300 x 300 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.

TI003151

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

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

Size

Web Code
 846-346-453

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
20 x 20 mm	EUR 104.00	EUR 127.00	EUR 187.00	EUR 320.00

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	Quantity
	1pc
150 x 150 mm	POA
300 x 300 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.

TI003230

Thickness **8.0mm**

Purity **99.6+%**

Size

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

Size	Quantity
	1pc
75 x 75 mm	POA
75 x 105 mm	POA
90 x 340 mm	POA
92 x 498 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.

TI003250

Thickness **12.0mm**

Purity **99.6+%**

Size

Web Code
 089-409-444
 176-182-493

Size	Quantity
	1pc
150 x 150 mm	POA
300 x 300 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.



Sputtering Target

TI009100

Thickness **1.0mm**

High Purity **99.99+%**

Size

Web Code
 393-206-927

Disc diam.	Quantity
	1disc
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.

Metal – Titanium

Titanium

Ti



Sputtering Target

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.



Mesh

TI008710

Nominal Aperture..... **0.19mm** Wire diameter..... **0.23mm**
 Wires/inch..... **60x60** Open area **20%**
 Weave..... **Twill**

Size	Quantity
Web Code	Size 1pc 2pcs 5pcs
113-282-527	50 x 50 mm EUR 344.00 EUR 459.00 EUR 659.00
160-318-438	100 x 100 mm EUR 478.00 EUR 648.00 EUR 971.00
039-809-321	150 x 150 mm EUR 612.00 EUR 837.00

TI008720

Nominal Aperture..... **4.3mm** Wire diameter..... **1.5mm**
 Wires/inch..... **4.4x4.4** Open area **94%**
 Condition..... **Diamond pattern** Condition..... **Platinised**

Size	Quantity
Web Code	Size 1pc
293-740-051	100 x 100 mm EUR 533.00

Metal – Titanium

Titanium

Ti



Wire

TI005100	Diameter 0.05mm Temper Hard	Purity 99.8%
	Length Web Code	Quantity
	703-333-766	Length 1 Reel
	916-721-398	10 m EUR 278.00
	590-169-228	20 m EUR 339.00
	771-155-069	50 m EUR 463.00
	044-552-997	100 m EUR 603.00
		200 m EUR 803.00
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	Quantity
	688-190-022	Length 1 Reel
		10 m EUR 278.00
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	Quantity
	162-135-533	Length 1 Reel
	266-947-713	10 m EUR 182.00
	622-638-419	20 m EUR 221.00
	368-464-341	50 m EUR 300.00
	349-966-852	100 m EUR 389.00
		200 m EUR 522.00
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	Quantity
	109-417-803	Length 1 Reel
		10 m EUR 177.00
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	Quantity
	407-756-100	Length 1 Reel
	474-042-012	1 m EUR 122.00
	963-914-025	5 m EUR 145.00
	782-680-564	25 m EUR 197.00
	364-257-070	100 m EUR 294.00
	434-034-311	200 m EUR 378.00
		500 m EUR 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.		
TI005124	Diameter 0.25mm Temper As drawn	Purity 99.6+%
	Length Web Code	Quantity
	552-625-721	Length 1 Reel
		10 m EUR 171.00
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	Quantity
	254-793-337	Length 1 Reel
	849-171-880	0.5 m EUR 159.00
	146-486-879	1 m EUR 199.00
	310-857-604	2 m EUR 258.00
		5 m EUR 385.00
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



Wire

TI005122

Diameter **0.25mm** Purity **99.6+%**
 Temper **Annealed**

Length		Quantity	
Web Code	Length	1 Reel	
782-345-219	1 m	EUR	123.00
793-150-275	5 m	EUR	147.00
143-776-319	25 m	EUR	202.00
972-049-909	100 m	EUR	304.00
506-244-341	200 m	EUR	392.00
280-545-040	500 m	EUR	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.

TI005123

Diameter **0.25mm** Purity **99.6+%**
 Temper **As drawn**

Length		Quantity	
Web Code	Length	1 Reel	
128-690-626	1 m	EUR	123.00
969-449-238	5 m	EUR	147.00
557-759-758	25 m	EUR	202.00
461-325-340	100 m	EUR	304.00
007-612-179	200 m	EUR	392.00
510-587-840	500 m	EUR	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.

TI005127

Diameter **0.5mm** Purity **99.975+%**
 Temper **Annealed**

Length		Quantity	
Web Code	Length	1 Reel	
341-440-179	0.5 m	EUR	160.00
680-020-060	1 m	EUR	200.00
002-501-645	2 m	EUR	267.00

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** High Purity **99.99+%**
 Temper **As drawn**

Length		Quantity	
Web Code	Length	1 Reel	
809-328-225	0.5 m	EUR	172.00
166-027-687	1 m	EUR	217.00
753-455-659	2 m	EUR	283.00
181-958-579	5 m	EUR	508.00

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** Purity **99.6+%**
 Temper **As drawn**

Length		Quantity	
Web Code	Length	1 Reel	
068-135-256	1 m	EUR	120.00
516-906-634	5 m	EUR	147.00
613-334-558	25 m	EUR	209.00
666-822-887	100 m	EUR	323.00
352-853-849	200 m	EUR	433.00

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.

TI005126

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

Length		Quantity	
Web Code	Length	1 Reel	
269-768-530	1 m	EUR	128.00
906-884-492	5 m	EUR	166.00
767-359-636	10 m	EUR	194.00
691-686-624	20 m	EUR	234.00
612-284-036	50 m	EUR	315.00
717-833-543	100 m	EUR	413.00

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.

Metal – Titanium

Titanium

Ti



Wire

TI005130

Diameter **1.0mm**
 Temper **Annealed**

Purity **99.6+%**

Length

Web Code
 762-664-231
 333-028-321
 628-549-595
 568-687-660
 085-951-196

Quantity	
Length	1 Reel
0.5 m	EUR 115.00
1 m	EUR 126.00
5 m	EUR 174.00
25 m	EUR 281.00
100 m	EUR 533.00

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**
 Temper **As drawn**

Purity **99.6+%**

Length

Web Code
 710-202-350
 775-296-397
 912-044-669
 005-581-872
 697-731-818

Quantity	
Length	1 Reel
0.5 m	EUR 115.00
1 m	EUR 126.00
5 m	EUR 174.00
25 m	EUR 281.00
100 m	EUR 533.00

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**
 Temper **As drawn**

High Purity **99.99+%**

Length

Web Code
 743-899-888
 987-481-525
 435-199-458

Quantity	
Length	1 Reel
0.5 m	EUR 204.00
1 m	EUR 254.00
2 m	EUR 327.00

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**
 Temper **Annealed**

Purity **99.99+%**

Length

Web Code
 684-191-326
 301-401-658
 042-269-369

Quantity	
Length	1 Reel
0.5 m	EUR 204.00
1 m	EUR 254.00
2 m	EUR 327.00

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**
 Temper **As drawn**

Purity **99.6+%**

Length

Web Code
 809-085-444
 506-434-790
 941-505-933
 755-186-249
 833-122-096

Quantity	
Length	1 Reel
1 m	EUR 141.00
5 m	EUR 208.00
10 m	EUR 258.00
20 m	EUR 329.00
50 m	EUR 518.00

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.

TI005160

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

Purity **99.6+%**

Length

Web Code
 902-253-893

Quantity	
Length	1 Reel
1 m	EUR 179.00

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	EUR 121.00	EUR 146.00	EUR 179.00	EUR 229.00	EUR 324.00
200 mm	EUR 125.00	EUR 152.00	EUR 189.00	EUR 243.00	EUR 344.00
500 mm	EUR 134.00	EUR 165.00	EUR 209.00	EUR 271.00	EUR 384.00
1000 mm	EUR 144.00	EUR 179.00	EUR 231.00	EUR 303.00	EUR 428.00

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



Rod

TI007910

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

Purity **99.6+%**

Size Web Code	Length	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
613-226-991	100 mm	EUR 124.00	EUR 150.00	EUR 185.00	EUR 238.00	EUR 337.00
653-367-004	200 mm	EUR 129.00	EUR 158.00	EUR 198.00	EUR 256.00	EUR 363.00
039-162-907	490 mm	EUR 140.00	EUR 174.00	EUR 223.00	EUR 291.00	EUR 412.00
860-685-368	1000 mm	EUR 153.00	EUR 192.00	EUR 252.00	EUR 333.00	EUR 488.00

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	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
669-911-794	100 mm	EUR 157.00	EUR 189.00	EUR 243.00	EUR 373.00
626-767-595	200 mm	EUR 183.00	EUR 225.00	EUR 367.00	EUR 636.00
331-228-329	500 mm	EUR 234.00	EUR 364.00	EUR 761.00	
587-909-642	1000 mm	EUR 358.00	EUR 626.00		

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	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
487-942-601	100 mm	EUR 170.00	EUR 202.00	EUR 257.00	EUR 386.00
720-919-424	200 mm	EUR 196.00	EUR 238.00	EUR 380.00	EUR 649.00
246-190-801	500 mm	EUR 247.00	EUR 377.00	EUR 774.00	
263-199-777	1000 mm	EUR 371.00	EUR 640.00		

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	Length	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
993-901-341	100 mm	EUR 128.00	EUR 156.00	EUR 195.00	EUR 252.00	EUR 356.00
177-055-164	200 mm	EUR 135.00	EUR 167.00	EUR 212.00	EUR 276.00	EUR 390.00
167-721-605	500 mm	EUR 150.00	EUR 188.00	EUR 245.00	EUR 323.00	EUR 459.00
548-835-815	1000 mm	EUR 167.00	EUR 211.00	EUR 283.00	EUR 378.00	EUR 642.00

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	Length	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
647-843-137	100 mm	EUR 135.00	EUR 165.00	EUR 207.00	EUR 267.00	EUR 373.00
549-782-494	200 mm	EUR 145.00	EUR 179.00	EUR 229.00	EUR 297.00	EUR 417.00
814-360-570	500 mm	EUR 164.00	EUR 206.00	EUR 272.00	EUR 372.00	EUR 627.00
144-236-334	1000 mm	EUR 186.00	EUR 237.00	EUR 334.00	EUR 551.00	

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.

TI007920

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

Purity **99.6+%**

Size Web Code	Length	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
585-670-678	100 mm	EUR 136.00	EUR 167.00	EUR 209.00	EUR 270.00	EUR 378.00
208-829-984	200 mm	EUR 146.00	EUR 181.00	EUR 232.00	EUR 302.00	EUR 424.00
103-746-780	500 mm	EUR 166.00	EUR 209.00	EUR 277.00	EUR 387.00	EUR 658.00
968-344-939	1000 mm	EUR 189.00	EUR 241.00	EUR 349.00	EUR 582.00	

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	Length	Quantity	
		1pc	2pcs
428-536-198	50 mm	EUR 279.00	EUR 351.00
267-928-716	100 mm	EUR 334.00	EUR 428.00

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



Rod

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	EUR 151.00	EUR 186.00	EUR 233.00	EUR 298.00
200 mm	EUR 163.00	EUR 203.00	EUR 260.00	EUR 336.00
500 mm	EUR 187.00	EUR 237.00	EUR 314.00	EUR 486.00
1000 mm	EUR 215.00	EUR 276.00	EUR 448.00	

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	EUR 390.00
370 mm	EUR 639.00
895 mm	EUR 1336.00

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	EUR 286.00	EUR 360.00
100 mm	EUR 343.00	EUR 441.00
200 mm	EUR 424.00	

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	EUR 321.00	EUR 411.00
100 mm	EUR 393.00	EUR 584.00
200 mm	EUR 567.00	

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	EUR 293.00	EUR 370.00	EUR 544.00
50 mm	EUR 353.00	EUR 457.00	
100 mm	EUR 440.00	EUR 749.00	
200 mm	EUR 732.00		

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	EUR 165.00	EUR 199.00	EUR 252.00	EUR 324.00
200 mm	EUR 181.00	EUR 222.00	EUR 289.00	
500 mm	EUR 214.00	EUR 269.00		
1000 mm	EUR 251.00			

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.

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	EUR 185.00	EUR 226.00	EUR 293.00
200 mm	EUR 207.00	EUR 258.00	EUR 397.00
500 mm	EUR 251.00	EUR 374.00	
1000 mm	EUR 355.00		

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	EUR 324.00	EUR 422.00
50 mm	EUR 405.00	EUR 683.00
100 mm	EUR 666.00	

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



Rod

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	EUR 141.00	EUR 168.00	POA
100 mm	EUR 157.00	EUR 189.00	POA
200 mm	EUR 179.00	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	EUR 339.00	EUR 456.00
50 mm	EUR 439.00	EUR 766.00
100 mm	EUR 749.00	

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	EUR 151.00	EUR 181.00	POA
100 mm	EUR 170.00	EUR 216.00	POA
200 mm	EUR 206.00	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	EUR 383.00	EUR 601.00
50 mm	EUR 584.00	

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	EUR 160.00	EUR 194.00	POA
100 mm	EUR 183.00	EUR 260.00	POA
200 mm	EUR 249.00	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.

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	EUR 179.00	EUR 243.00	POA
100 mm	EUR 233.00	POA	
200 mm	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.

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	EUR 177.00	EUR 224.00	POA
50 mm	EUR 212.00	POA	
100 mm	POA		
200 mm	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.

Titanium

Ti



Rod

TI007955

Diameter 50mm

High Purity 99.99+%

Size

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

Quantity	
Length	1pc
10 mm	EUR 430.00
25 mm	EUR 739.00

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

Quantity		
Length	1pc	2pcs
25 mm	EUR 207.00	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	EUR 83.00	EUR 100.00	EUR 138.00	EUR 230.00
200 mm	EUR 98.50	EUR 123.00	EUR 227.00	
500 mm	EUR 135.00	EUR 226.00		
1000 mm	EUR 224.00	EUR 405.00		

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

Quantity	
Length	1pc
100 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.



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	EUR 325.00	EUR 403.00	EUR 712.00
200 mm	EUR 391.00	EUR 600.00	
500 mm	EUR 694.00		

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.

TI007054

Outside Diameter 0.635mm
 Inside Diameter 0.331mm

Wall Thickness 0.152mm
 Purity 99.6+%

Size

Web Code
 809-010-195
 300-931-847
 100-857-780
 210-542-591

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	EUR 308.00	EUR 379.00	EUR 606.00
200 mm	EUR 367.00	EUR 515.00	EUR 1030.00
500 mm	EUR 588.00	EUR 1023.00	
1000 mm	EUR 1011.00		

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
 Inside Diameter 0.61mm
 Temper As drawn

Wall Thickness 0.1mm
 Purity 99.6+%

Size

Web Code
 212-007-468
 084-327-266
 627-380-069
 600-924-567

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	EUR 308.00	EUR 379.00	EUR 606.00
200 mm	EUR 367.00	EUR 515.00	EUR 1030.00
500 mm	EUR 588.00	EUR 1023.00	
1000 mm	EUR 1011.00		

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

TI007068

Outside Diameter..... **1.00mm**
 Inside Diameter..... **0.36mm**
 Temper..... **Hard**

Wall Thickness..... **0.32mm**
 Purity..... **99.6+%**

Size

Web Code
 307-126-652

Length	Quantity			
	10pcs	20pcs	50pcs	100pcs
20 mm	EUR 296.00	EUR 423.00	EUR 807.00	EUR 1448.00

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**
 Inside Diameter..... **0.75mm**
 Temper..... **Annealed**

Wall Thickness..... **0.15mm**
 Purity..... **99.6+%**

Size

Web Code
 414-378-307
 797-294-422
 661-800-346
 328-012-513

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	EUR 308.00	EUR 379.00	EUR 606.00
200 mm	EUR 367.00	EUR 515.00	EUR 1030.00
500 mm	EUR 588.00	EUR 1023.00	
1000 mm	EUR 1011.00		

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**
 Inside Diameter..... **1.15mm**
 Temper..... **Hard**

Wall Thickness..... **0.175mm**
 Purity..... **99.6+%**

Size

Web Code
 772-144-387

Length	Quantity		
	1pc	2pcs	5pcs
230 mm	EUR 311.00	EUR 388.00	EUR 532.00

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**
 Inside Diameter..... **0.6mm**
 Temper..... **Annealed**

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

Size

Web Code
 550-158-262
 054-267-481
 934-343-170
 272-244-568

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	EUR 198.00	EUR 246.00	EUR 410.00
200 mm	EUR 237.00	EUR 348.00	EUR 702.00
500 mm	EUR 397.00	EUR 699.00	
1000 mm	EUR 690.00		

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**
 Inside Diameter..... **1.2mm**
 Temper..... **Hard**

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

Size

Web Code
 656-944-268
 492-647-132
 863-991-063
 054-380-668

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	EUR 198.00	EUR 246.00	EUR 410.00
200 mm	EUR 237.00	EUR 348.00	EUR 702.00
500 mm	EUR 397.00	EUR 699.00	
1000 mm	EUR 690.00		

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.

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	EUR 176.00	EUR 214.00	EUR 284.00
200 mm	EUR 205.00	EUR 255.00	EUR 450.00
500 mm	EUR 271.00	EUR 446.00	
1220 mm	EUR 510.00		

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	EUR 186.00	EUR 228.00	EUR 337.00
200 mm	EUR 219.00	EUR 290.00	EUR 556.00
500 mm	EUR 324.00	EUR 553.00	
1000 mm	EUR 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.

Titanium

Ti



Tube

TI007126	Outside Diameter.....	2.65mm	Wall Thickness.....	0.1mm
	Inside Diameter.....	0.45mm	Purity.....	99.6+%
	Temper.....	Hard		
	Size		Quantity	
	Web Code		Length	10pcs 25pcs 50pcs 100pcs
	117-672-939		4 mm	EUR 173.00 EUR 218.00 EUR 279.00 EUR 389.00

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	Wall Thickness.....	0.75mm
	Inside Diameter.....	1.5mm	Purity.....	99.6+%
	Temper.....	Annealed		
	Size		Quantity	
	Web Code		Length	1pc 2pcs 5pcs 10pcs
	832-381-277		100 mm	EUR 164.00 EUR 197.00 EUR 264.00 EUR 415.00
	047-658-559		200 mm	EUR 188.00 EUR 231.00 EUR 410.00
	957-319-600		500 mm	EUR 251.00 EUR 406.00
	664-952-794		1000 mm	EUR 397.00

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	Wall Thickness.....	0.25mm
	Inside Diameter.....	3.75mm	Purity.....	99.6+%
	Temper.....	Annealed		
	Size		Quantity	
	Web Code		Length	1pc 2pcs 5pcs 10pcs
	119-099-329		100 mm	EUR 158.00 EUR 190.00 EUR 237.00 EUR 314.00
	887-420-548		200 mm	EUR 181.00 EUR 221.00 EUR 308.00 EUR 504.00
	927-568-528		500 mm	EUR 224.00 EUR 304.00
	946-070-401		1000 mm	EUR 295.00 EUR 494.00

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	Wall Thickness.....	0.5mm
	Inside Diameter.....	5.1mm	Purity.....	99.6+%
	Temper.....	Annealed		
	Size		Quantity	
	Web Code		Length	1pc 2pcs 5pcs 10pcs
	481-675-901		100 mm	EUR 180.00 EUR 219.00 EUR 297.00 EUR 478.00
	356-826-007		200 mm	EUR 209.00 EUR 260.00 EUR 471.00 EUR 826.00
	504-026-630		500 mm	EUR 283.00 EUR 468.00
	206-109-979		1000 mm	EUR 457.00 EUR 815.00

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	Wall Thickness.....	0.89mm
	Inside Diameter.....	4.57mm	Purity.....	99.6+%
	Temper.....	Annealed		
	Size		Quantity	
	Web Code		Length	1pc 2pcs 5pcs 10pcs
	739-151-280		100 mm	EUR 175.00 EUR 213.00 EUR 271.00 EUR 422.00
	393-908-800		200 mm	EUR 202.00 EUR 250.00 EUR 415.00
	238-601-445		500 mm	EUR 256.00 EUR 411.00
	825-177-227		1000 mm	EUR 400.00

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.

TI007300	Outside Diameter.....	6.35mm	Wall Thickness.....	0.41mm
	Inside Diameter.....	5.53mm	Purity.....	99.6+%
	Temper.....	Annealed		
	Size		Quantity	
	Web Code		Length	1pc 2pcs 5pcs 10pcs
	258-804-851		100 mm	EUR 180.00 EUR 219.00 EUR 297.00 EUR 478.00
	350-610-838		200 mm	EUR 209.00 EUR 260.00 EUR 471.00
	826-351-383		500 mm	EUR 283.00 EUR 468.00
	293-913-295		1000 mm	EUR 457.00

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	Wall Thickness.....	1.0mm
	Inside Diameter.....	5mm	Purity.....	99.6+%
	Temper.....	Annealed		
	Size		Quantity	
	Web Code		Length	1pc 2pcs 5pcs 10pcs
	223-418-007		100 mm	EUR 175.00 EUR 213.00 EUR 271.00 EUR 422.00
	106-208-414		200 mm	EUR 202.00 EUR 250.00 EUR 415.00
	648-580-126		500 mm	EUR 256.00 EUR 411.00
	036-921-236		1000 mm	EUR 400.00

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

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	EUR 147.00	EUR 179.00	EUR 210.00	EUR 248.00
200 mm	EUR 162.00	EUR 199.00	EUR 242.00	EUR 339.00
500 mm	EUR 190.00	EUR 239.00	EUR 384.00	
1000 mm	EUR 221.00	EUR 330.00		

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	EUR 164.00	EUR 197.00	EUR 246.00	EUR 342.00
200 mm	EUR 187.00	EUR 229.00	EUR 335.00	
500 mm	EUR 232.00	EUR 332.00		
1000 mm	EUR 322.00			

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	EUR 164.00	EUR 197.00	EUR 246.00	EUR 342.00
200 mm	EUR 187.00	EUR 229.00	EUR 335.00	
500 mm	EUR 232.00	EUR 332.00		
1000 mm	EUR 322.00			

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	EUR 167.00	EUR 201.00	EUR 252.00	EUR 363.00
200 mm	EUR 191.00	EUR 234.00	EUR 356.00	EUR 596.00
500 mm	EUR 238.00	EUR 353.00		
1000 mm	EUR 343.00	EUR 586.00		

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	EUR 177.00	EUR 213.00	EUR 265.00	EUR 383.00
200 mm	EUR 201.00	EUR 247.00	EUR 375.00	EUR 623.00
500 mm	EUR 248.00	EUR 371.00		
1000 mm	EUR 359.00	EUR 612.00		

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.



Powder

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

Weight	Quantity	
	1 Pot	
50 g	EUR 305.00	
100 g	EUR 487.00	
200 g	EUR 779.00	

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.

Metal – Titanium

Titanium

Ti



Powder

TI006022

Max. Particle size **75micron**

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



Web Code

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

Quantity

Weight	1 Pot
50 g	EUR 225.00
100 g	EUR 288.00
200 g	EUR 350.00
500 g	EUR 584.00

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**

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

Condition..... **Grade 2**
 Condition..... **Spherical**



Web Code

679-009-014
 691-821-307
 625-923-294

Quantity

Weight	1 Pot
50 g	EUR 305.00
100 g	EUR 487.00
200 g	EUR 779.00

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

Weight	1 Pot
50 g	EUR 179.00
100 g	EUR 212.00
200 g	EUR 259.00
500 g	EUR 354.00
1000 g	EUR 602.00

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.



Lump

TI006104

Max. Lump size **4mm**

Web Code
 744-070-240

Quantity

Weight	1 Pot
20 g	EUR 200.00

Typical Analysis : Not applicable

TI006101

Max. Lump size **4mm**
 Condition..... **Pellets**

High Purity **99.99+%**

Web Code

693-862-822
 230-788-207
 691-854-254

Quantity

Weight	1 Pot
20 g	EUR 216.00
50 g	EUR 344.00
100 g	EUR 582.00

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**
 Condition..... **Pellets**

High Purity **99.99+%**

Web Code

466-661-763
 036-450-754
 259-017-715

Quantity

Weight	1 Pot
20 g	EUR 207.00
50 g	EUR 306.00
100 g	EUR 506.00

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.

Metal – Titanium

Titanium

Ti



Lump

TI006111

Max. Lump size **6mm**
 Condition..... **Pellets**

High Purity **99.999%**

Web Code

797-622-142
 421-821-863
 217-107-759

Quantity

Weight

20 g EUR 262.00
 50 g EUR 464.00
 100 g EUR 808.00

1 Pot

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**
 Condition..... **Pellets**

High Purity **99.99+%**

Web Code

128-330-856
 041-351-482
 168-929-050

Quantity

Weight

20 g EUR 183.00
 50 g EUR 263.00
 100 g EUR 419.00

1 Pot

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**
 Condition..... **Pellets**

High Purity **99.999%**

Web Code

609-177-118
 147-144-895
 393-112-098

Quantity

Weight

20 g EUR 270.00
 50 g EUR 492.00
 100 g EUR 863.00

1 Pot

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+%**

Quantity

Web Code
 220-739-924
 757-094-570
 347-398-370

Quantity

Spheres

50 pcs EUR 175.00
 100 pcs EUR 291.00
 200 pcs EUR 514.00

1 Pot

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.



Single Crystal

TI002122

Oriented **(0001)**
 Condition..... **Unpolished**

Thickness **1mm**

Web Code
 366-248-096

Quantity

Size

3x5 EUR POA

1pc

TI002120

Oriented **(0001)**
 Diameter..... **5mm**

Thickness **1mm**
 Condition..... **Unpolished**

Web Code
 769-085-275

Quantity

1pc

EUR POA

TI002121

Oriented **(0001)**
 Diameter..... **8mm**

Thickness **1mm**
 Condition..... **Unpolished**

Web Code
 690-308-068

Quantity

1pc

EUR POA

Metal – Titanium

INDEX

B

Bar, Titanium 42

F

Foil, Titanium 21

L

Lump, Titanium 46

M

Mesh, Titanium 35

Microfoil, Titanium 20

P

Powder, Titanium 45

R

Rod, Titanium 38

S

Sheet, Titanium 34

Single Crystal, Titanium 47

Sphere, Titanium 47

Sputtering Target, Titanium 34

T

Titanium (Ti) 20

Tube, Titanium 42

W

Wire .. Titanium 36

INDEX — B-W