

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



Goodfellow Cambridge Limited

Ermine Business Park
HUNTINGDON
PE29 6WR
England

Tel: 0800 731 4653 (UK)
or +44 1480 424 800
Fax: 0800 328 7689 (UK)
or +44 1480 424 900

Goodfellow Corporation

125 Hookstown Grade Road
Coraopolis, PA 15108-9302
USA

Tel: 1-800-821-2870 (USA and Canada)
or +1 724 695 7060
Fax: 1-800-283-2020 (USA and Canada)
or +1 724 695 7063

Goodfellow SARL

229, rue Solférino
F-59000 Lille
France

Tel : 0800 917 241 (numéro vert)
or +44 1480 424 813
Fax : 0800 917 313 (numéro vert)
or +44 1480 424 900

Goodfellow GmbH

Am Edelspfad 4
D-61169 Friedberg
Germany

Tel: 0800 1000 579 (freecall)
or +44 1480 424 810
Fax: 0800 1000 580 (freecall)
or +44 1480 424 900

Goodfellow (Shanghai) Trading Co., Ltd

Room 803, Centro Build, No. 568 Hengfeng Road
SHANGHAI
200070

The People's Republic of China
Tel: 00 86 21 6112 1560

Standard Price List for Titanium

CONTENTS

Introduction	4
Product Descriptions	5
Hazards Information	9
General Information	10
Order information	11
Company Details	14
Conditions of Sale	15
Metal	19
INDEX	47

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 Catalogue details those materials which are available as standard products from stock. Custom-made items are also available, so please contact us if you are unable to identify the item you require.

Ceramics

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

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

Polymers

The range of polymers supplied by Goodfellow is broad and includes both the familiar as well as some of the more unusual or recently developed materials. The Catalogue 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 Catalogue details those which are available. Please contact us with details of your requirements.

Composites

Some examples of these materials are listed in the Catalogue. 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 Catalogue, however, they are available through the Goodfellow Ceramic and Glass Division. Please contact us with your requirements.

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

Product Descriptions



Bar

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

Tolerances

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



Bolt

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

Tolerances

See item



Chopped Fibre

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

Tolerances

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



Crucible

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

Tolerances

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



Fabric

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

Tolerances

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



Fibre

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

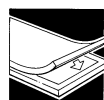


Insulated Wire

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%



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

Product Descriptions



Microfoil

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

Tolerances

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



Microleaf

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

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.

Tolerances

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



Nut

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

Tolerances

See item

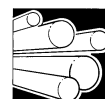


Powder

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

Tolerances

Dimensions shown are nominal



Rod

A straight length of circular section material.

Tolerances

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

Product Descriptions



Sheet

Flat material with a thickness >0.5mm.

Tolerances

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



Single Crystal

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

Tolerances

Orientation:	± 3°
Size:	Sizes shown are nominal



Sphere

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

Tolerances

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



Sputtering Target

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

Tolerances

Thickness:	± 0.5mm
Size:	± 0.5mm



Tube

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

Tolerances

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



Washer

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

Tolerances

See item



Wire

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

Tolerances

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

Hazards Information

HAZARDS

All materials listed in this 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

Delivery by door-to-door courier service of our choice is included in the prices, although alternative methods may be used depending on the materials ordered.

Split shipment

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

Special Analysis, Supports or Tolerances

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

Cancellations

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

Express Service

An administration charge will be made for any order received for which same day shipment 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

Ermine Business Park
HUNTINGDON
PE29 6WR
England
Registered in England and Wales no. 1188162
VAT registration GB 212 8527 79

Goodfellow Corporation

125 Hookstown Grade Road
Coraopolis, PA 15108-9302
USA
A Pennsylvania corporation
EIN 23-2557381

Goodfellow SARL

229, rue Solférino
F-59000 Lille
France
Registered in Lille : RCS : B 381 486 836
Siren : 381486836
Numéro de TVA Intracommunitaire :
FR 06 381 486 836

Goodfellow GmbH

Am Edelspfad 4
D-61169 Friedberg
Germany
Registered in Friedberg (Hessen) No. HRB 1309
Import VAT number DE112610478

Goodfellow (Shanghai) Trading Co., Ltd

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

Conditions of Sale

1 GENERAL

1.1 In these Conditions:

1.1.1 the following expressions shall have the following meanings:-

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

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

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

2 ORDERS

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

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

3 DESCRIPTION

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

4 SPECIFICATIONS AND INTELLECTUAL PROPERTY

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

5 QUOTATIONS

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

6 PRICE

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

7 DELIVERY

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

Conditions of Sale

- accordance with a means of delivery specifically requested by the Buyer, when the same are collected;
- 7.1.2 where delivery of the Goods is to be the responsibility of the Seller, when they arrive prior to unloading at the Buyer's premises;
- 7.1.3 where Goods are sold FOB or CIF, when they pass the ship's rail or are loaded onto the aircraft
- 7.2 Delivery of Services shall be deemed to be effected by the Seller at the time of completion by the Seller of the Services
- 7.3 Whilst the Seller will make every reasonable effort to complete the Contract by the date or dates therein specified for delivery of Goods or provision of Services such date or dates shall only constitute the times by which the Seller expects to effect such delivery and if no time is agreed delivery will be within a reasonable time but the performance of the Contract by the Seller shall not be the essence of the Contract, the Seller's failure to so deliver by the due date or dates shall not constitute a breach of Contract and the Seller shall not in any circumstances be responsible for any direct or consequential loss or damage of any kind whatsoever resulting therefrom. The Seller may wholly or partly suspend deliveries of Goods or provision of Services and the Buyer shall accept late delivery of such Goods or Services unless the Buyer has cancelled the Contract in accordance with the provisions of Condition 10.3
- 8 QUANTITIES INSTALMENTS AND STORAGE**
- 8.1 Where Goods are delivered or Services are by instalment each instalment shall be deemed to be sold under a separate Contract and the party in default in respect of any instalment shall be liable accordingly, but no default in respect of any one instalment shall effect due performance of the Contract as regards other instalments
- 8.2 The Seller will endeavour to deliver the quantity of Goods ordered and every delivery shall be deemed to comply with the order. If there is a surplus or shortage of Goods which is no more than 10% of the quantity specified in the order the Buyer shall be deemed to have accepted the Goods and shall pay for the actual quantity delivered
- 8.3 If Goods or Services are to be delivered by instalments, the Seller shall be entitled to invoice each instalment as and when delivery is made and payment for all delivered instalments shall be due notwithstanding the non-delivery of other instalments or other default by the Seller. Failure by the Buyer to make payment by the due date for any one instalment for whatever reason shall entitle the Seller to suspend deliveries of Goods or provision of Services under the Contract but without prejudice to any other right the Seller may have under any of the other provisions of these Conditions
- 8.4 Notwithstanding that risk shall have passed to the Buyer pursuant to Condition 15 the Seller may in its absolute discretion arrange for storage of the Goods either at the request of the Buyer or as a result of the failure by the Buyer to take delivery of the Goods under Condition 7. The Seller may insure the goods whilst in storage and the Buyer shall indemnify and keep indemnified the Seller in full against all costs, losses, damages and expenses whatsoever arising in connection with the storage provided for hereunder and such costs, losses, damages and expenses will be added to and form part of the price of the Goods
- 8.5 Unless otherwise agreed between the Buyer and the Seller, the Seller shall be entitled in its absolute discretion and without giving prior notice to the Buyer at the expiration of 3 months to sell or otherwise dispose of Goods kept in storage as provided in Condition 8.4
- 9 TERMS OF PAYMENT**
- 9.1 Unless otherwise agreed the price shall be due and payable at the Seller's offices 30 days after the date of the Seller's invoice
- 9.2 If the Buyer does not pay the whole or any part of the price on the required day then the Buyer shall pay to the Seller on request interest on the amount outstanding from the required day until the actual date of payment at the rate of 2% p.a. over the base rate of Barclays Bank plc from time to time in force which shall accrue on a daily basis
- 9.3 Condition 12 shall apply in the event of any alleged defect or failure in or of the Goods or Services and the Buyer shall not delay or refuse to make payment in any such event
- 9.4 The Buyer shall not be entitled to withhold payment of any amount due to the Seller by reason of any disputed claim by the Buyer in connection with the Contract nor shall the Buyer be entitled to set off against any amount payable under the Contract to the Seller any amount which is not then due and payable by the Seller or for which the Seller disputes liability
- 9.5 All payments payable to the Seller under the Contract shall become due immediately upon termination of the Contract despite any other provision.
- 10 SUSPENSION AND CANCELLATION**
- 10.1 If the Buyer shall commit any breach of the Contract and fail to remedy the same within 7 days of receiving the Seller's request in writing so to do or any distress or execution is levied upon any goods or property of the Buyer or the Buyer makes any voluntary arrangement with its creditors or becomes subject to an administration order or (being an individual or firm) becomes bankrupt or (being an incorporated company) passes a resolution for winding up (otherwise than for the purpose of amalgamation or reconstruction), or a Court makes an order to that effect, or an encumbrancer takes possession, or an administrative receiver or receiver is appointed, of any of the property or assets of the Buyer, or the Buyer ceases, or threatens to cease, to carry on business or is unable to pay its debts within the meaning of section 123 Insolvency Act, 1986, or the Seller reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly, the Seller may:-
- 10.1.1 stop any Goods in transit and suspend any further deliveries;

and/or

- 10.1.2 suspend work on the Contract; and/or
- 10.1.3 determine the Contract forthwith and if the Goods or Services, or any part of them have been delivered but not paid for, the price shall become immediately due and payable notwithstanding any previous agreement to the contrary but without prejudice to the Seller's right to any unpaid price for Goods or Services delivered under the Contract and to damages for loss (both direct and consequential) suffered in consequence of such determination
- 10.2 If the Buyer requires cancellation of the Contract this will only be accepted at the sole discretion of the Seller and unless otherwise agreed in writing only upon condition that any costs, charges or expenses (both direct and consequential) incurred by the Seller up to the date of cancellation and the value of all loss or damage (both direct and consequential) incurred by the Seller by reason of such cancellation will be reimbursed by the Buyer to the Seller forthwith. Acceptance by the Seller of any cancellation by the Buyer will only be binding upon the Seller if it is made in writing
- 10.3 In the event of the Seller other than in any of the circumstances set out in Condition 10.1 being prevented or hindered from completing the Contract either wholly or in part in accordance with the terms thereof for any reason whatsoever beyond its reasonable control which, for the avoidance of doubt and without prejudice to the generality of the foregoing, shall include governmental action, war, riot, civil commotion, fire, flood, epidemic, labour disputes (including labour disputes involving the work force or any part thereof of the Seller or Supplier), restraints or delays affecting shipping or carriers, licensing, exporting or importing restrictions, currency restrictions and Acts of God then further performance of the Contract shall be suspended for the period during which the Seller is so prevented provided that in the event of the Contract being suspended for a continuous period of more than 3 months then either party may give the other notice in writing to terminate the Contract forthwith and in such circumstances the Buyer shall pay for all Goods or Services supplied to the date of such termination such payment to be made on or before the last day following the month during which termination was effected. The Seller shall be under no liability whatsoever to the Buyer for any direct or consequential loss or damage suffered by the Buyer as a result of the Seller's inability to perform its obligations under the Contract in these circumstances
- 10.4 The Seller's rights contained in Condition 17 (but not the Buyer's rights) shall continue beyond the discharge of the parties' primary obligations under the Contract consequent upon its termination
- 10.5 The termination of the Contract for whatever reason will be without prejudice to the rights and duties of either party accrued prior to termination
- 11 INSPECTION AND CLAIMS FOR DEFECTS**
- 11.1 The Goods are of a highly specialised nature and must be treated with the utmost care. It is essential that the Buyer checks that they correspond in all respects with the Buyer's requirements. Any discrepancies should be notified to the Seller immediately. The Buyer undertakes to ensure that all Goods are unpacked and handled only by persons qualified to deal with such specialised products, to safeguard against injury to the Goods or to the Buyer's personnel
- 11.2 The Buyer shall inspect the Goods and carry out tests to ensure the Goods conform with the description of the Goods or Services in the Buyer's orders within 7 days of Delivery and whether or not the Buyer carries out such obligation to inspect and test no claims for non-delivery, shortages in quantity of units delivered, defective Goods or Services, non-conformity to description or partial loss or damage to Goods will be accepted by the Seller unless:-
- 11.2.1 they are notified in writing by the Buyer to the Seller within 10 days after the Date of Delivery (in the case of partial loss, damage, non-conforming or defective Goods or Services) or 14 days after the date of the invoice (in the case of non-delivery);
- 11.2.2 the Goods in respect of which a claim is made together with all the relevant packing are preserved intact as received for a period of 35 days from notification of any such claim and the Buyer permits the Seller or its servants or agents full and free right of access to inspect the Goods and investigate the claim; and
- 11.2.3 if the Buyer fails to give the appropriate notice as specified in Condition 11.2.1, the Buyer's claim will be deemed to have been waived and will be absolutely barred
- 11.3 It is in all cases the responsibility of the Buyer to ensure by testing or otherwise that the Goods are fit and suitable for the purposes for which the Buyer requires them in the conditions in which they will be used. The Buyer acknowledges that the Seller shall be under no liability of any description to the Buyer if the Goods prove to be unsuitable for whatever reason for application or use notwithstanding that the Seller may, at the request of the Buyer, have given in good faith technical or other advice in relation to the proposed application or use of the Goods and the Buyer shall indemnify and keep indemnified the Seller in full against any and all liability of any kind arising out of or connected with the application or use of the Goods
- 11.4 Section 3 Sale and Supply of Goods Act 1994 shall not apply
- 11.5 The Seller will not accept the return of Goods in any circumstances unless it has first issued a Goods return number and such number is quoted with the returned Goods
- 12 WARRANTY**
- 12.1 In substitution for all and any other rights which the Buyer might or would have had but for these Conditions and subject to Condition 11,

Conditions of Sale

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

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

13 CONSUMER SALES

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

14 TITLE TO GOODS

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

15 RISK AND INSURANCE

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

16 EXPORT TERMS

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

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

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

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

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

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

17 BUYER'S WARRANTIES

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

18 SEVERANCE

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

19 JURISDICTION

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

20 NOTICES

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

21 WAIVER

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		Physical Properties	
Atomic number	22	Boiling point	3287 C
Atomic radius - Goldschmidt	0.147 nm	Density @20C	4.5 g cm ⁻³
Atomic weight	47.88 amu	Melting point	1660 C
Crystal structure	Hexagonal close packed	Electrical Properties	
Electronic structure	Ar 3d ² 4s ²	Electrical resistivity @20C	54 µOhmcm
Photo-electric work function	4.1 eV	Temperature coefficient @0-100C	0.0038 K ⁻¹
Thermal neutron absorption cross-section	6.1 Barns	Superconductivity critical temperature	0.40 K
Valences shown	2, 3, 4	Thermal Properties	
Natural isotope distribution		Mass No.	%
		46	8.0
		47	7.5
		48	73.7
		49	5.5
		50	5.3
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	
Quantity					
Web Code	Disc diam.	1 disc	2discs	5discs	10discs
059-252-810	10 mm	£ 175.00	£ 238.00	£ 426.00	£ 677.00
825-798-434	25 mm	£ 259.00	£ 364.00	£ 677.00	£ 1096.00

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

TI004600	Thinness.....	0.25µm	Area density.....	112.6µg.cm⁻²	
	Purity.....	99.6+%	Support.....	Permanent Mylar 3.5µm	
Quantity					
Web Code	Disc diam.	1 disc	2discs	5discs	10discs
525-512-225	10 mm	£ 194.00	£ 266.00	£ 483.00	£ 772.00
129-297-443	25 mm	£ 290.00	£ 411.00	£ 772.00	£ 1253.00

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

TI004700	Thinness.....	0.5µm	Area density.....	225.4µg.cm⁻²	
	Purity.....	99.6+%	Support.....	Permanent Mylar 3.5µm	
Quantity					
Web Code	Disc diam.	1 disc	2discs	5discs	10discs
139-599-398	10 mm	£ 207.00	£ 285.00	£ 520.00	£ 834.00
239-166-185	25 mm	£ 311.00	£ 442.00	£ 834.00	£ 1357.00

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

TI004850	Thinness.....	1.0µm	Area density.....	429µg.cm⁻²	
	Purity.....	99.6+%	Support.....	Permanent Mylar 3.5µm	
Quantity					
Web Code	Disc diam.	1 disc	2discs	5discs	10discs
060-822-869	10 mm	£ 238.00	£ 332.00	£ 615.00	£ 991.00
356-832-183	25 mm	£ 364.00	£ 520.00	£ 991.00	£ 1619.00

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.

Metal – Titanium

Titanium

Ti



Foil

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

Web Code	Size	Quantity		
		1pc	2pcs	5pcs
912-066-045	25 x 25 mm	£ 477.00	£ 655.00	£ 1020.00
086-830-273	50 x 50 mm	£ 885.00	£ 1233.00	

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+%**

Web Code	Size	Quantity		
		1pc	2pcs	5pcs
079-450-947	25 x 25 mm	£ 301.00	£ 401.00	£ 604.00
882-226-421	50 x 50 mm	£ 528.00	£ 721.00	

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**

Web Code	Size	Quantity		
		1pc	2pcs	5pcs
045-468-855	25 x 25 mm	£ 434.00	£ 594.00	£ 923.00
645-780-331	50 x 50 mm	£ 799.00	£ 1111.00	

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+%**

Web Code	Size	Quantity		
		1pc	2pcs	5pcs
688-203-858	25 x 25 mm	£ 289.00	£ 384.00	£ 578.00
060-778-536	50 x 50 mm	£ 505.00	£ 689.00	

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+%**

Web Code	Size	Quantity		
		1pc	2pcs	5pcs
536-162-812	25 x 25 mm	£ 278.00	£ 369.00	£ 554.00
825-766-602	50 x 50 mm	£ 483.00	£ 658.00	

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+%**

Web Code	Size	Quantity		
		1pc	2pcs	5pcs
104-119-736	25 x 25 mm	£ 256.00	£ 338.00	£ 505.00
292-868-505	50 x 50 mm	£ 439.00	£ 595.00	
224-731-655	100 x 100 mm	£ 997.00		

Web Code	Size	Quantity		
		1pc	2pcs	5pcs
785-692-968	25 x 25 mm	£ 308.00	£ 405.00	£ 606.00
002-536-064	50 x 50 mm	£ 658.00	£ 893.00	

Web Code	Diameter	Quantity		
		10 discs	20 discs	50 discs
132-291-866	4 mm	£ 264.00	£ 328.00	£ 477.00
536-487-144	6 mm	£ 315.00	£ 401.00	£ 595.00
060-894-747	8 mm	£ 367.00	£ 475.00	£ 714.00
611-840-001	10 mm	£ 420.00	£ 550.00	£ 836.00
480-006-974	15 mm	£ 548.00	£ 733.00	

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

Metal – Titanium

Titanium

Ti



Foil

TI000210

Thickness **0.005mm**

Purity **99.6+%**

NLT Sizes

Web Code

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

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	£ 196.00	£ 242.00	£ 336.00
50 x 50 mm	£ 303.00	£ 393.00	
100 x 100 mm	£ 683.00		

Sizes LT

Web Code

270-344-449

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	£ 216.00	£ 267.00	£ 370.00

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	£ 234.00	£ 284.00	£ 381.00
6 mm	£ 267.00	£ 331.00	£ 457.00
8 mm	£ 300.00	£ 379.00	£ 534.00
10 mm	£ 334.00	£ 428.00	£ 613.00
15 mm	£ 416.00	£ 545.00	

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

TI000208

Thickness **0.005mm**

High Purity **99.99+%**

Temper **As rolled**

NLT Sizes

Web Code

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

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	£ 319.00	£ 442.00	£ 724.00
50 x 50 mm	£ 522.00	£ 729.00	
100 x 100 mm	£ 929.00		

Sizes LT

Web Code

501-822-204
 224-191-870

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	£ 351.00	£ 486.00	£ 796.00
50 x 50 mm	£ 653.00	£ 911.00	

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	£ 234.00	£ 306.00
50 x 50 mm	£ 394.00	£ 532.00
100 x 100 mm	£ 949.00	

Sizes LT

Web Code

410-260-256
 769-784-123

Size	Quantity	
	1pc	2pcs
25 x 25 mm	£ 257.00	£ 336.00
50 x 50 mm	£ 492.00	£ 665.00

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	£ 251.00	£ 310.00	£ 448.00
6 mm	£ 296.00	£ 374.00	£ 552.00
8 mm	£ 342.00	£ 440.00	£ 657.00
10 mm	£ 388.00	£ 506.00	£ 765.00
15 mm	£ 501.00	£ 666.00	

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	£ 232.00	£ 304.00	£ 451.00	£ 643.00
50 x 50 mm	£ 391.00	£ 527.00	£ 1170.00	
100 x 100 mm	£ 933.00	£ 1797.00		
150 x 150 mm	£ 2006.00			

Sizes LT

Web Code

769-480-263
 397-971-951

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	£ 256.00	£ 334.00	£ 496.00	£ 708.00
50 x 50 mm	£ 430.00	£ 580.00	£ 1287.00	

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	£ 250.00	£ 309.00	£ 446.00
6 mm	£ 295.00	£ 373.00	£ 549.00
8 mm	£ 340.00	£ 437.00	£ 654.00
10 mm	£ 386.00	£ 503.00	£ 760.00
15 mm	£ 498.00	£ 661.00	£ 1337.00
25 mm	£ 762.00		

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

Length
 0.2 m
 0.3 m

Quantity

1 Reel
 £ 465.00
 £ 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.

TI000160

Thickness **0.008mm**

Purity **99.6+%**

NLT Sizes

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

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

Quantity

1pc	2pcs	5pcs	10pcs
£ 224.00	£ 292.00	£ 432.00	£ 625.00
£ 374.00	£ 504.00	£ 1135.00	
£ 904.00	£ 1740.00		
£ 1942.00			

Sizes LT

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

Size
 25 x 25 mm
 50 x 50 mm

Quantity

1pc	2pcs	5pcs	10pcs
£ 246.00	£ 321.00	£ 475.00	£ 688.00
£ 411.00	£ 554.00	£ 1248.00	

Discs

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

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

Quantity

10 discs	20 discs	50 discs
£ 246.00	£ 302.00	£ 436.00
£ 288.00	£ 362.00	£ 533.00
£ 331.00	£ 424.00	£ 632.00
£ 374.00	£ 486.00	£ 733.00
£ 480.00	£ 636.00	£ 1301.00
£ 742.00	£ 1344.00	

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
 25 x 25 mm
 50 x 50 mm
 100 x 100 mm
 150 x 150 mm

Quantity

1pc	2pcs	5pcs	10pcs
£ 216.00	£ 281.00	£ 415.00	£ 613.00
£ 359.00	£ 485.00	£ 1109.00	
£ 884.00	£ 1699.00		
£ 1896.00			

Sizes LT

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

Size
 25 x 25 mm
 50 x 50 mm

Quantity

1pc	2pcs	5pcs	10pcs
£ 238.00	£ 309.00	£ 457.00	£ 674.00
£ 395.00	£ 533.00	£ 1220.00	

Discs

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

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

Quantity

10 discs	20 discs	50 discs
£ 241.00	£ 296.00	£ 426.00
£ 282.00	£ 354.00	£ 519.00
£ 322.00	£ 412.00	£ 613.00
£ 363.00	£ 471.00	£ 711.00
£ 464.00	£ 613.00	£ 1275.00
£ 728.00	£ 1316.00	

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

TI000213

Thickness **0.010mm**

Purity **99.6+%**

NLT Sizes

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

Size
 100 x 100 mm
 150 x 150 mm
 200 x 200 mm

Quantity

1pc	2pcs	5pcs	10pcs	20pcs
£ 242.00	£ 309.00	£ 444.00	£ 604.00	
£ 318.00	£ 416.00	£ 613.00		
£ 393.00	£ 522.00			

Sizes LT

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

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

Quantity

1pc	2pcs	5pcs	10pcs	20pcs
£ 129.00	£ 149.00	£ 191.00	£ 245.00	£ 333.00
£ 167.00	£ 202.00	£ 276.00	£ 365.00	£ 502.00
£ 267.00	£ 340.00	£ 489.00	£ 664.00	

Coil

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

Width 150mm

Length
 0.2 m
 0.3 m
 0.5 m
 1 m

Quantity

1 Reel
 £ 372.00
 £ 431.00
 £ 525.00
 £ 696.00

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	£ 514.00	£ 708.00	
100 x 100 mm	£ 959.00		

Sizes LT

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

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	£ 291.00	£ 393.00	£ 605.00
50 x 50 mm	£ 565.00	£ 779.00	
100 x 100 mm	£ 1199.00		

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	£ 316.00	£ 459.00	£ 589.00
6 mm	£ 373.00	£ 541.00	£ 719.00
8 mm	£ 431.00	£ 623.00	£ 850.00
10 mm	£ 488.00	£ 705.00	£ 983.00
15 mm	£ 631.00	£ 907.00	
25 mm	£ 917.00		

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	£ 238.00	£ 303.00	£ 435.00	£ 590.00	
200 x 200 mm	£ 385.00	£ 510.00	£ 763.00		

Sizes LT

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

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	£ 128.00	£ 147.00	£ 189.00	£ 242.00	£ 328.00
50 x 50 mm	£ 165.00	£ 199.00	£ 271.00	£ 358.00	£ 492.00
100 x 100 mm	£ 262.00	£ 333.00	£ 478.00	£ 649.00	

Coil

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

Length	Quantity
	1 Reel
0.2 m	£ 407.00
0.3 m	£ 473.00
0.5 m	£ 578.00
1 m	£ 772.00

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	£ 235.00	£ 291.00	£ 351.00
6 mm	£ 246.00	£ 306.00	£ 376.00
8 mm	£ 258.00	£ 322.00	£ 401.00
10 mm	£ 269.00	£ 338.00	£ 426.00
15 mm	£ 297.00	£ 377.00	£ 488.00
25 mm	£ 352.00	£ 456.00	£ 613.00
50 mm	£ 492.00	£ 654.00	

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	£ 209.00	£ 259.00	£ 360.00	£ 476.00	
150 x 150 mm	£ 268.00	£ 342.00	£ 491.00		
279 x 300 mm	£ 432.00	£ 574.00			

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	£ 121.00	£ 134.00	£ 163.00	£ 197.00	£ 249.00
50 x 50 mm	£ 150.00	£ 176.00	£ 228.00	£ 290.00	£ 381.00
100 x 100 mm	£ 230.00	£ 285.00	£ 396.00	£ 523.00	
150 x 150 mm	£ 321.00	£ 411.00	£ 590.00		
279 x 300 mm	£ 539.00	£ 717.00			

Coil

Web Code
 046-933-275

Length	Quantity
	1 Reel
0.5 m	£ 554.00

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
 382-539-332
 657-861-588

Size

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

1pc

£ 111.00
 £ 140.00
 £ 198.00
 £ 243.00
 £ 408.00

2pcs

£ 125.00
 £ 165.00
 £ 247.00
 £ 311.00
 £ 544.00

5pcs

£ 153.00
 £ 217.00
 £ 345.00
 £ 447.00

10pcs

£ 186.00
 £ 277.00
 £ 459.00

20pcs

£ 238.00
 £ 366.00

Coil

Web Code

650-175-936
 263-144-779

Width 266mm

Length

0.5 m
 1 m

Quantity

1 Reel

£ 524.00
 £ 698.00

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

£ 172.00
 £ 180.00
 £ 189.00
 £ 198.00
 £ 220.00
 £ 264.00
 £ 373.00

20 discs

£ 196.00
 £ 208.00
 £ 220.00
 £ 233.00
 £ 264.00
 £ 325.00
 £ 480.00

50 discs

£ 252.00
 £ 271.00
 £ 291.00
 £ 310.00
 £ 359.00
 £ 457.00
 £ 703.00

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**

Purity **99.6+%**

Temper **Annealed**

Size

Web Code

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

Size

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

1pc

£ 108.00
 £ 138.00
 £ 194.00
 £ 257.00
 £ 367.00

2pcs

£ 121.00
 £ 164.00
 £ 243.00
 £ 332.00
 £ 489.00

5pcs

£ 150.00
 £ 217.00
 £ 343.00
 £ 483.00
 £ 746.00

10pcs

£ 185.00
 £ 279.00
 £ 457.00
 £ 655.00

20pcs

£ 237.00
 £ 370.00
 £ 623.00

Coil

Web Code

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

Width 180mm

Length

0.5 m
 1 m
 2 m

Quantity

1 Reel

£ 457.00
 £ 605.00
 £ 907.00

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

£ 167.00
 £ 176.00
 £ 185.00
 £ 194.00
 £ 216.00
 £ 262.00
 £ 375.00

20 discs

£ 191.00
 £ 204.00
 £ 216.00
 £ 229.00
 £ 261.00
 £ 325.00
 £ 486.00

50 discs

£ 247.00
 £ 268.00
 £ 288.00
 £ 308.00
 £ 359.00
 £ 460.00
 £ 715.00

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**

High Purity **99.99+%**

Temper **As rolled**

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

1pc

£ 186.00
 £ 312.00
 £ 849.00

2pcs

£ 241.00
 £ 458.00

5pcs

£ 355.00

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

Titanium

Ti



Foil

TI000290

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

Purity **99.6+%**

Size

Web Code

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

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

Quantity					
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	£ 76.00	£ 86.00	£ 111.00	£ 146.00	£ 191.00
50 x 50 mm	£ 88.50	£ 104.00	£ 138.00	£ 185.00	£ 247.00
100 x 100 mm	£ 113.00	£ 139.00	£ 194.00	£ 264.00	£ 358.00
150 x 150 mm	£ 138.00	£ 174.00	£ 250.00	£ 343.00	
300 x 300 mm	£ 213.00	£ 279.00	£ 417.00		

Coil

Web Code

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

Width 305mm

Length

0.5 m
 1 m
 2 m

Quantity	
1 Reel	
0.5 m	£ 268.00
1 m	£ 351.00
2 m	£ 513.00

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

Quantity			
	10 discs	20 discs	50 discs
4 mm	£ 176.00	£ 213.00	£ 323.00
6 mm	£ 180.00	£ 219.00	£ 332.00
8 mm	£ 183.00	£ 224.00	£ 340.00
10 mm	£ 187.00	£ 230.00	£ 349.00
15 mm	£ 197.00	£ 243.00	£ 370.00
25 mm	£ 215.00	£ 270.00	£ 412.00
50 mm	£ 263.00	£ 337.00	£ 518.00

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
 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
25 x 25 mm	£ 85.50	£ 91.50	£ 104.00	£ 121.00	£ 149.00
50 x 50 mm	£ 96.00	£ 107.00	£ 128.00	£ 155.00	£ 197.00
100 x 100 mm	£ 118.00	£ 137.00	£ 177.00	£ 223.00	£ 294.00
150 x 150 mm	£ 139.00	£ 167.00	£ 225.00	£ 292.00	£ 390.00
200 x 300 mm	£ 180.00	£ 225.00	£ 316.00		

Coil

Web Code

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

Width 200mm

Length

0.5 m
 1 m
 2 m

Quantity	
1 Reel	
0.5 m	£ 233.00
1 m	£ 290.00
2 m	£ 370.00

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

Quantity			
	10 discs	20 discs	50 discs
4 mm	£ 141.00	£ 157.00	£ 196.00
6 mm	£ 143.00	£ 160.00	£ 202.00
8 mm	£ 146.00	£ 164.00	£ 208.00
10 mm	£ 149.00	£ 168.00	£ 214.00
15 mm	£ 156.00	£ 178.00	£ 230.00
25 mm	£ 169.00	£ 197.00	£ 260.00
50 mm	£ 203.00	£ 245.00	£ 337.00

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

Quantity		
	1pc	5pcs
25 x 25 mm	£ 176.00	£ 334.00
50 x 50 mm	£ 293.00	£ 435.00
100 x 100 mm	£ 804.00	

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

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	£ 68.00	£ 76.00	£ 95.50	£ 123.00	£ 155.00
50 x 50 mm	£ 79.50	£ 92.50	£ 121.00	£ 160.00	£ 207.00
100 x 100 mm	£ 103.00	£ 125.00	£ 173.00	£ 233.00	£ 310.00
150 x 150 mm	£ 126.00	£ 158.00	£ 225.00	£ 306.00	
300 x 300 mm	£ 195.00	£ 255.00	£ 379.00		

Coil

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

Length	1 Reel
	0.5 m
1 m	£ 331.00
2 m	£ 437.00

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	£ 141.00	£ 160.00	£ 215.00
6 mm	£ 143.00	£ 164.00	£ 222.00
8 mm	£ 146.00	£ 168.00	£ 228.00
10 mm	£ 149.00	£ 172.00	£ 235.00
15 mm	£ 157.00	£ 183.00	£ 251.00
25 mm	£ 171.00	£ 203.00	£ 284.00
50 mm	£ 208.00	£ 255.00	£ 366.00

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

TI000351

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

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

Size

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

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
100 x 100 mm	£ 156.00	£ 191.00	£ 262.00	£ 344.00
150 x 200 mm	£ 216.00	£ 275.00	£ 395.00	£ 533.00
200 x 300 mm	£ 274.00	£ 358.00	£ 526.00	

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	£ 145.00	£ 163.00	£ 207.00
6 mm	£ 151.00	£ 171.00	£ 218.00
8 mm	£ 156.00	£ 178.00	£ 230.00
10 mm	£ 161.00	£ 185.00	£ 241.00
15 mm	£ 174.00	£ 204.00	£ 270.00
25 mm	£ 199.00	£ 240.00	£ 328.00
50 mm	£ 264.00	£ 331.00	£ 473.00

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	£ 90.00	£ 97.50	£ 114.00	£ 135.00	£ 169.00
50 x 50 mm	£ 105.00	£ 119.00	£ 148.00	£ 183.00	£ 237.00
100 x 100 mm	£ 136.00	£ 162.00	£ 217.00	£ 280.00	£ 374.00
150 x 150 mm	£ 166.00	£ 205.00	£ 285.00	£ 376.00	£ 510.00
300 x 300 mm	£ 258.00	£ 335.00	£ 489.00		

Coil

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

Length	1 Reel
	0.5 m
1 m	£ 434.00
2 m	£ 574.00

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	£ 143.00	£ 160.00	£ 201.00
6 mm	£ 147.00	£ 165.00	£ 210.00
8 mm	£ 151.00	£ 171.00	£ 218.00
10 mm	£ 154.00	£ 176.00	£ 227.00
15 mm	£ 164.00	£ 190.00	£ 249.00
25 mm	£ 183.00	£ 217.00	£ 292.00
50 mm	£ 232.00	£ 286.00	£ 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



Foil

TI000371

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

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

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
Web Code				
630-171-429	£ 237.00	£ 306.00	£ 444.00	£ 619.00
041-183-299	£ 305.00	£ 401.00	£ 612.00	

Discs	Diameter	Quantity		
		10 discs	20 discs	50 discs
Web Code				
423-021-686	4 mm	£ 147.00	£ 166.00	£ 210.00
175-968-623	6 mm	£ 153.00	£ 174.00	£ 224.00
907-277-026	8 mm	£ 159.00	£ 183.00	£ 237.00
316-579-676	10 mm	£ 165.00	£ 191.00	£ 250.00
094-437-742	15 mm	£ 180.00	£ 212.00	£ 284.00
160-968-338	25 mm	£ 209.00	£ 254.00	£ 350.00
637-919-830	50 mm	£ 284.00	£ 360.00	£ 518.00

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	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
Web Code					
380-858-910	£ 93.50	£ 102.00	£ 120.00	£ 143.00	£ 180.00
607-371-481	£ 111.00	£ 127.00	£ 159.00	£ 199.00	£ 258.00
921-437-060	£ 146.00	£ 176.00	£ 237.00	£ 309.00	
179-629-378	£ 180.00	£ 225.00	£ 315.00		
664-077-116	£ 285.00	£ 373.00			

Coil	Width 300mm	Quantity	
		1 Reel	
Web Code			
189-018-411	Length	£ 368.00	
707-882-026	0.5 m	£ 480.00	
	1 m		

Discs	Diameter	Quantity		
		10 discs	20 discs	50 discs
Web Code				
809-251-386	4 mm	£ 145.00	£ 163.00	£ 205.00
156-416-369	6 mm	£ 150.00	£ 169.00	£ 215.00
552-049-618	8 mm	£ 154.00	£ 175.00	£ 225.00
006-211-220	10 mm	£ 158.00	£ 181.00	£ 234.00
776-410-055	15 mm	£ 170.00	£ 197.00	£ 259.00
051-251-261	25 mm	£ 192.00	£ 228.00	£ 309.00
406-410-729	50 mm	£ 247.00	£ 307.00	£ 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.

TI000385

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

High Purity **99.9+%**

Size	Quantity		
	1pc	2pcs	5pcs
Web Code			
727-305-262	£ 145.00	£ 184.00	£ 297.00
913-150-763	£ 238.00	£ 420.00	
143-849-769	£ 774.00		

Discs	Diameter	Quantity		
		10 discs	20 discs	50 discs
Web Code				
981-214-161	4 mm	£ 182.00	£ 234.00	£ 307.00
651-770-958	6 mm	£ 205.00	£ 267.00	£ 359.00
471-373-838	8 mm	£ 227.00	£ 300.00	£ 448.00
921-732-484	10 mm	£ 251.00	£ 333.00	£ 584.00
216-554-361	15 mm	£ 306.00	£ 504.00	

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

Quantity					
1pc	2pcs	5pcs	10pcs	20pcs	
£ 70.00	£ 78.00	£ 96.50	£ 123.00	£ 170.00	
£ 80.50	£ 92.50	£ 120.00	£ 156.00	£ 217.00	
£ 101.00	£ 122.00	£ 166.00	£ 222.00	£ 310.00	
£ 122.00	£ 151.00	£ 213.00	£ 288.00		
£ 162.00	£ 207.00	£ 327.00			
£ 183.00	£ 237.00				

Coil

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

Width 292mm

Length
 0.5 m
 1 m

Quantity

1 Reel
 £ 216.00
 £ 304.00

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

Quantity

10 discs	20 discs	50 discs
£ 143.00	£ 179.00	£ 218.00
£ 146.00	£ 183.00	£ 224.00
£ 149.00	£ 187.00	£ 230.00
£ 151.00	£ 190.00	£ 236.00
£ 158.00	£ 200.00	£ 251.00
£ 171.00	£ 218.00	£ 281.00
£ 204.00	£ 265.00	£ 355.00

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
 25 x 25 mm
 50 x 50 mm
 100 x 100 mm
 150 x 150 mm
 160 x 300 mm
 300 x 300 mm

Quantity

1pc	2pcs	5pcs	10pcs	20pcs
£ 71.00	£ 79.00	£ 98.50	£ 126.00	£ 174.00
£ 82.50	£ 95.00	£ 124.00	£ 162.00	£ 225.00
£ 105.00	£ 127.00	£ 175.00	£ 233.00	£ 327.00
£ 128.00	£ 159.00	£ 225.00	£ 305.00	
£ 159.00	£ 204.00	£ 295.00		
£ 196.00	£ 256.00			

Coil

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

Width 305mm

Length
 0.5 m
 1 m

Quantity

1 Reel
 £ 234.00
 £ 325.00

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

Quantity

10 discs	20 discs	50 discs
£ 144.00	£ 180.00	£ 220.00
£ 147.00	£ 184.00	£ 226.00
£ 150.00	£ 188.00	£ 232.00
£ 152.00	£ 192.00	£ 239.00
£ 160.00	£ 202.00	£ 255.00
£ 174.00	£ 223.00	£ 287.00
£ 210.00	£ 274.00	£ 368.00

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
 50 x 50 mm
 100 x 100 mm
 200 x 300 mm

Quantity

1pc	2pcs	5pcs	10pcs
£ 101.00	£ 121.00	£ 165.00	£ 219.00
£ 142.00	£ 179.00	£ 256.00	
£ 260.00	£ 346.00		

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

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
 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	
£ 74.50	£ 84.50	£ 107.00	£ 137.00	£ 191.00	
£ 89.50	£ 105.00	£ 140.00	£ 185.00	£ 258.00	
£ 120.00	£ 148.00	£ 207.00	£ 279.00		
£ 150.00	£ 190.00	£ 274.00			
£ 239.00	£ 317.00				

Coil

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

Width **300mm**
 Length
 0.5 m
 1 m

Quantity

1 Reel
 £ 289.00
 £ 385.00

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

Quantity

10 discs	20 discs	50 discs
£ 146.00	£ 183.00	£ 239.00
£ 149.00	£ 188.00	£ 248.00
£ 153.00	£ 193.00	£ 256.00
£ 157.00	£ 199.00	£ 265.00
£ 167.00	£ 212.00	£ 286.00
£ 186.00	£ 239.00	£ 329.00
£ 233.00	£ 307.00	£ 436.00

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
 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	
£ 76.00	£ 86.00	£ 110.00	£ 142.00	£ 197.00	
£ 92.50	£ 109.00	£ 146.00	£ 193.00	£ 269.00	
£ 125.00	£ 155.00	£ 219.00	£ 296.00		
£ 157.00	£ 201.00	£ 292.00			
£ 255.00	£ 339.00				

Coil

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

Width **305mm**
 Length
 0.5 m
 1 m

Quantity

1 Reel
 £ 311.00
 £ 416.00

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

Quantity

10 discs	20 discs	50 discs
£ 146.00	£ 183.00	£ 241.00
£ 150.00	£ 189.00	£ 250.00
£ 155.00	£ 195.00	£ 259.00
£ 159.00	£ 201.00	£ 269.00
£ 169.00	£ 216.00	£ 292.00
£ 190.00	£ 245.00	£ 338.00
£ 242.00	£ 318.00	£ 455.00

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
 100 x 100 mm
 150 x 150 mm
 300 x 300 mm

Quantity		
1pc	2pcs	5pcs
£ 129.00	£ 161.00	£ 228.00
£ 164.00	£ 210.00	£ 306.00
£ 268.00	£ 357.00	

Coil

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

Width **300mm**
 Length
 0.5 m
 1 m

Quantity

1 Reel
 £ 325.00
 £ 437.00

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

Quantity

10 discs	20 discs	50 discs
£ 147.00	£ 184.00	£ 242.00
£ 151.00	£ 190.00	£ 252.00
£ 156.00	£ 197.00	£ 262.00
£ 160.00	£ 203.00	£ 272.00
£ 171.00	£ 218.00	£ 296.00
£ 193.00	£ 250.00	£ 345.00
£ 248.00	£ 328.00	£ 470.00

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

Titanium

Ti



Foil

TI000419	Thickness	0.35mm	Purity	99.6+%
	Temper	Annealed	Condition	Platinised on both sides
	Size		Quantity	
Web Code	Size		1pc	
386-456-572	100 x 100 mm		£ 368.00	

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

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

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

TI000425	Thickness	0.5mm	Purity	99.6+%
	Temper	Annealed	Condition	Polished on both sides
	Size		Quantity	
Web Code	Size		1pc	2pcs
772-974-842	100 x 100 mm		£ 134.00	£ 173.00
				5pcs
				£ 262.00

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

TI000421	Thickness	0.5mm	Purity	99.6+%
	Surface treatment	Titanium Nitride coating 2-3 microns		
	Size		Quantity	
Web Code	Size		1pc	2pcs
541-806-825	25 x 25 mm		£ 108.00	£ 131.00
725-858-944	50 x 50 mm		£ 156.00	£ 200.00
732-369-991	100 x 100 mm		£ 253.00	

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

TI000420	Thickness	0.5mm	Purity	99.6+%	
	Temper	Annealed			
	Size		Quantity		
Web Code	Size		1pc	2pcs	5pcs
395-215-502	25 x 25 mm		£ 71.50	£ 80.00	£ 101.00
401-947-946	50 x 50 mm		£ 83.50	£ 96.50	£ 127.00
243-490-913	100 x 100 mm		£ 107.00	£ 130.00	£ 179.00
436-363-166	150 x 150 mm		£ 130.00	£ 163.00	£ 231.00
545-396-026	300 x 300 mm		£ 200.00	£ 292.00	

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

TI000417	Thickness	0.5mm	Purity	99.6+%
	Temper	Annealed	Condition	Polished on 1 side
	Size		Quantity	
Web Code	Size		1pc	2pcs
832-171-022	10 x 10 mm		£ 125.00	£ 155.00
				5pcs
				£ 231.00
				10pcs
				£ 405.00

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

Quantity					
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	£ 77.50	£ 84.00	£ 99.00	£ 118.00	£ 149.00
50 x 50 mm	£ 90.50	£ 103.00	£ 128.00	£ 159.00	£ 207.00
100 x 100 mm	£ 117.00	£ 140.00	£ 187.00	£ 242.00	
150 x 150 mm	£ 143.00	£ 177.00	£ 245.00		
300 x 300 mm	£ 221.00	£ 288.00			
500 x 500 mm	£ 326.00				

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

Quantity			
	10 discs	20 discs	50 discs
4 mm	£ 136.00	£ 154.00	£ 198.00
6 mm	£ 139.00	£ 159.00	£ 206.00
8 mm	£ 143.00	£ 164.00	£ 215.00
10 mm	£ 147.00	£ 169.00	£ 223.00
15 mm	£ 156.00	£ 182.00	£ 243.00
25 mm	£ 174.00	£ 208.00	£ 284.00
50 mm	£ 220.00	£ 273.00	£ 387.00

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

Quantity			
	1pc	2pcs	5pcs
25 x 25 mm	£ 161.00	£ 214.00	£ 330.00
50 x 50 mm	£ 243.00	£ 355.00	
100 x 100 mm	£ 595.00		

Discs

Web Code

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

Diameter
 4 mm
 6 mm
 8 mm
 10 mm
 15 mm

Quantity			
	10 discs	20 discs	50 discs
4 mm	£ 303.00	£ 428.00	£ 784.00
6 mm	£ 326.00	£ 462.00	£ 838.00
8 mm	£ 350.00	£ 496.00	£ 893.00
10 mm	£ 374.00	£ 530.00	£ 977.00
15 mm	£ 433.00	£ 625.00	

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
 25 x 25 mm
 50 x 50 mm

Quantity		
	1pc	2pcs
25 x 25 mm	£ 253.00	£ 345.00
50 x 50 mm	£ 494.00	

Discs

Web Code

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

Diameter
 4 mm
 6 mm
 8 mm
 10 mm

Quantity			
	10 discs	20 discs	50 discs
4 mm	£ 356.00	£ 503.00	£ 905.00
6 mm	£ 406.00	£ 576.00	
8 mm	£ 458.00	£ 650.00	
10 mm	£ 510.00		

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

Quantity				
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	£ 105.00	£ 127.00	£ 174.00	£ 233.00
50 x 50 mm	£ 150.00	£ 191.00	£ 275.00	
100 x 100 mm	£ 241.00			

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

Metal – Titanium

Titanium

Ti



Foil

TI000430

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

Purity **99.6+%**

Size

Web Code

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

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

Quantity					
1pc	2pcs	5pcs	10pcs	20pcs	
£ 69.00	£ 80.00	£ 108.00	£ 150.00	£ 230.00	
£ 78.50	£ 93.00	£ 129.00	£ 180.00	£ 272.00	
£ 97.50	£ 120.00	£ 171.00	£ 239.00		
£ 116.00	£ 146.00	£ 212.00			
£ 172.00	£ 252.00				
£ 317.00					

Discs

Web Code

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

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

Quantity		
10 discs	20 discs	50 discs
£ 182.00	£ 258.00	£ 374.00
£ 184.00	£ 262.00	£ 379.00
£ 187.00	£ 265.00	£ 385.00
£ 190.00	£ 269.00	£ 391.00
£ 196.00	£ 278.00	£ 406.00
£ 209.00	£ 297.00	£ 435.00
£ 242.00	£ 344.00	£ 510.00

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

TI000436

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

Purity **99.6+%**

Size

Web Code

145-934-621
 463-826-320

Size
 150 x 150 mm
 300 x 300 mm

Quantity		
1pc	2pcs	5pcs
£ 163.00	£ 205.00	£ 291.00
£ 262.00	£ 354.00	

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

TI000437

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

Purity **99.6+%**

Size

Web Code

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

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

Quantity					
1pc	2pcs	5pcs	10pcs	20pcs	
£ 81.00	£ 89.50	£ 107.00	£ 130.00	£ 166.00	
£ 98.00	£ 113.00	£ 145.00	£ 183.00	£ 241.00	
£ 131.00	£ 161.00	£ 220.00	£ 289.00		
£ 165.00	£ 208.00	£ 295.00			
£ 266.00	£ 410.00				

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

TI000441

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

Purity **99.6+%**

Size

Web Code

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

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

Quantity				
1pc	2pcs	5pcs	10pcs	
£ 110.00	£ 133.00	£ 181.00	£ 242.00	
£ 157.00	£ 199.00	£ 286.00		
£ 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.
 This item is shown as an example of Titanium Nitride (TiN) coated material.

TI000440

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

Purity **99.6+%**

Size

Web Code

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

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

Quantity					
1pc	2pcs	5pcs	10pcs	20pcs	
£ 82.00	£ 91.00	£ 110.00	£ 133.00	£ 170.00	
£ 100.00	£ 116.00	£ 150.00	£ 190.00	£ 251.00	
£ 136.00	£ 167.00	£ 230.00	£ 303.00		
£ 172.00	£ 217.00	£ 310.00			
£ 279.00	£ 373.00				
£ 491.00					

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

Quantity		
1pc	2pcs	5pcs
£ 107.00	£ 127.00	£ 167.00
£ 151.00	£ 188.00	£ 263.00
£ 194.00	£ 249.00	
£ 271.00		
£ 324.00		

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

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	£ 167.00	£ 223.00	£ 345.00
50 x 50 mm	£ 257.00	£ 399.00	
100 x 100 mm	£ 682.00		

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	
	1 pcs	2 pcs
26 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.

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	£ 67.00	£ 82.00	£ 120.00	£ 206.00

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
113-282-527	50 x 50 mm	£ 222.00	£ 296.00
160-318-438	100 x 100 mm	£ 308.00	£ 417.00
039-809-321	150 x 150 mm	£ 394.00	£ 539.00

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 £ 343.00

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 £ 179.00
	590-169-228	20 m £ 218.00
	771-155-069	50 m £ 298.00
	044-552-997	100 m £ 388.00
		200 m £ 517.00
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 £ 179.00
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 £ 117.00
	622-638-419	20 m £ 142.00
	368-464-341	50 m £ 193.00
	349-966-852	100 m £ 251.00
		200 m £ 336.00
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 £ 114.00
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. Very limited stock available.		
TI005121	Diameter 0.20mm Temper Annealed	Purity 99.6+%
	Length Web Code	Quantity
	407-756-100	Length 1 Reel
	474-042-012	1 m £ 78.50
	963-914-025	5 m £ 93.00
	782-680-564	25 m £ 127.00
	364-257-070	100 m £ 190.00
	434-034-311	200 m £ 243.00
		500 m £ 470.00
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 £ 110.00
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. Very limited stock available.		
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 £ 103.00
	146-486-879	1 m £ 128.00
	310-857-604	2 m £ 166.00
		5 m £ 248.00
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	£ 79.00	
793-150-275	5 m	£ 94.50	
143-776-319	25 m	£ 130.00	
972-049-909	100 m	£ 196.00	
506-244-341	200 m	£ 252.00	
280-545-040	500 m	£ 512.00	

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	£ 79.00	
969-449-238	5 m	£ 94.50	
557-759-758	25 m	£ 130.00	
461-325-340	100 m	£ 196.00	
007-612-179	200 m	£ 252.00	
510-587-840	500 m	£ 512.00	

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	£ 103.00	
680-020-060	1 m	£ 129.00	
002-501-645	2 m	£ 172.00	

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	£ 111.00	
166-027-687	1 m	£ 140.00	
753-455-659	2 m	£ 182.00	
181-958-579	5 m	£ 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.

TI005125

Diameter **0.5mm** Purity **99.6+%**
 Temper **As drawn**

Length		Quantity	
Web Code	Length	1 Reel	
068-135-256	1 m	£ 77.00	
516-906-634	5 m	£ 94.50	
613-334-558	25 m	£ 134.00	
666-822-887	100 m	£ 208.00	
352-853-849	200 m	£ 279.00	

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	£ 82.50	
906-884-492	5 m	£ 107.00	
767-359-636	10 m	£ 125.00	
691-686-624	20 m	£ 151.00	
612-284-036	50 m	£ 203.00	
717-833-543	100 m	£ 266.00	

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**

Size		Quantity				
Web Code	Length	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	£ 74.00
1 m	£ 81.00
5 m	£ 112.00
25 m	£ 181.00
100 m	£ 343.00

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	£ 74.00
1 m	£ 81.00
5 m	£ 112.00
25 m	£ 181.00
100 m	£ 343.00

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	£ 131.00
1 m	£ 163.00
2 m	£ 211.00

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	£ 131.00
1 m	£ 163.00
2 m	£ 211.00

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	£ 91.00
5 m	£ 134.00
10 m	£ 166.00
20 m	£ 212.00
50 m	£ 333.00

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	£ 115.00

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	£ 77.50	£ 94.00	£ 115.00	£ 147.00	£ 208.00
200 mm	£ 80.50	£ 98.00	£ 122.00	£ 157.00	£ 221.00
500 mm	£ 86.00	£ 106.00	£ 134.00	£ 175.00	£ 247.00
1000 mm	£ 92.50	£ 115.00	£ 149.00	£ 195.00	£ 276.00

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

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	£ 79.50	£ 96.50	£ 119.00	£ 153.00	£ 217.00
200 mm	£ 83.00	£ 102.00	£ 128.00	£ 165.00	£ 233.00
490 mm	£ 90.50	£ 112.00	£ 143.00	£ 188.00	£ 265.00
1000 mm	£ 98.50	£ 124.00	£ 162.00	£ 214.00	£ 314.00

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

TI007911

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

High Purity **99.99+%**

Size

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

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	£ 101.00	£ 122.00	£ 157.00	£ 240.00
200 mm	£ 118.00	£ 145.00	£ 236.00	£ 409.00
500 mm	£ 151.00	£ 234.00	£ 490.00	
1000 mm	£ 230.00	£ 403.00		

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

TI007913

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

Purity **99.99+%**

Size

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

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	£ 110.00	£ 130.00	£ 165.00	£ 248.00
200 mm	£ 126.00	£ 153.00	£ 245.00	£ 418.00
500 mm	£ 159.00	£ 242.00	£ 499.00	
1000 mm	£ 239.00	£ 412.00		

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

TI007915

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

Purity **99.6+%**

Size

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

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	£ 82.50	£ 100.00	£ 126.00	£ 162.00	£ 229.00
200 mm	£ 87.00	£ 107.00	£ 136.00	£ 178.00	£ 251.00
500 mm	£ 96.50	£ 121.00	£ 158.00	£ 208.00	£ 295.00
1000 mm	£ 107.00	£ 136.00	£ 182.00	£ 243.00	£ 413.00

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

TI007916

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

Purity **99.6+%**

Size

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

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	£ 87.00	£ 106.00	£ 133.00	£ 172.00	£ 240.00
200 mm	£ 93.50	£ 115.00	£ 147.00	£ 191.00	£ 268.00
500 mm	£ 106.00	£ 133.00	£ 175.00	£ 240.00	£ 404.00
1000 mm	£ 120.00	£ 152.00	£ 215.00	£ 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.

TI007920

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

Purity **99.6+%**

Size

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

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	£ 88.00	£ 107.00	£ 135.00	£ 174.00	£ 243.00
200 mm	£ 94.50	£ 116.00	£ 149.00	£ 194.00	£ 273.00
500 mm	£ 107.00	£ 135.00	£ 178.00	£ 249.00	£ 423.00
1000 mm	£ 122.00	£ 155.00	£ 225.00	£ 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.

TI007918

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

Purity **99.99+%**

Size

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

Length	Quantity	
	1pc	2pcs
50 mm	£ 180.00	£ 226.00
100 mm	£ 215.00	£ 276.00

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



Rod

TI007921	Diameter..... 6mm Temper..... Annealed	Purity..... 99.6+%				
Size		Quantity				
Web Code	Length	1pc	2pcs	5pcs	10pcs	
043-116-388	100 mm	£ 97.50	£ 120.00	£ 150.00	£ 192.00	
389-540-768	200 mm	£ 105.00	£ 131.00	£ 167.00	£ 216.00	
692-593-155	500 mm	£ 121.00	£ 153.00	£ 202.00	£ 313.00	
574-141-796	1000 mm	£ 138.00	£ 177.00	£ 288.00		

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		Quantity				
Web Code	Length	1pc				
017-601-271	154 mm	£ 251.00				
571-501-549	370 mm	£ 411.00				
384-667-485	895 mm	£ 860.00				

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.
 Very limited stock available.

TI007922	Diameter..... 6.35mm Temper..... Annealed	High Purity..... 99.99+%				
Size		Quantity				
Web Code	Length	1pc	2pcs			
664-090-505	50 mm	£ 184.00	£ 232.00			
519-300-427	100 mm	£ 221.00	£ 284.00			
277-294-013	200 mm	£ 273.00				

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		Quantity				
Web Code	Length	1pc	2pcs			
823-918-786	50 mm	£ 207.00	£ 264.00			
405-093-456	100 mm	£ 253.00	£ 376.00			
986-116-236	200 mm	£ 365.00				

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		Quantity				
Web Code	Length	1pc	2pcs	5pcs		
351-300-359	25 mm	£ 188.00	£ 238.00	£ 350.00		
912-539-653	50 mm	£ 227.00	£ 294.00			
918-599-677	100 mm	£ 283.00	£ 482.00			
824-951-989	200 mm	£ 471.00				

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		Quantity				
Web Code	Length	1pc	2pcs	5pcs	10pcs	
767-723-911	100 mm	£ 106.00	£ 128.00	£ 162.00	£ 208.00	
965-493-289	200 mm	£ 117.00	£ 143.00	£ 186.00		
686-650-782	500 mm	£ 138.00	£ 173.00			
831-348-743	1000 mm	£ 162.00				

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		Quantity				
Web Code	Length	1pc	2pcs	5pcs		
390-400-846	100 mm	£ 119.00	£ 146.00	£ 189.00		
800-104-921	200 mm	£ 133.00	£ 166.00	£ 255.00		
013-124-908	500 mm	£ 162.00	£ 241.00			
640-617-607	1000 mm	£ 228.00				

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		Quantity				
Web Code	Length	1pc	2pcs			
501-713-189	25 mm	£ 209.00	£ 272.00			
480-926-876	50 mm	£ 261.00	£ 440.00			
877-169-973	100 mm	£ 429.00				

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	£ 91.00	£ 108.00	POA
100 mm	£ 101.00	£ 122.00	POA
200 mm	£ 115.00	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	£ 218.00	£ 294.00
50 mm	£ 283.00	£ 493.00
100 mm	£ 482.00	

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	£ 97.00	£ 117.00	POA
100 mm	£ 110.00	£ 139.00	POA
200 mm	£ 132.00	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	£ 247.00	£ 387.00
50 mm	£ 376.00	

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	£ 103.00	£ 125.00	POA
100 mm	£ 118.00	£ 167.00	POA
200 mm	£ 160.00	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	£ 115.00	£ 157.00	POA
100 mm	£ 150.00	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	£ 114.00	£ 144.00	POA
50 mm	£ 136.00	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

Length	Quantity	
	1pc	
10 mm	£ 277.00	
25 mm	£ 476.00	

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

TI007975

Diameter 75mm
 Temper Annealed

Purity 99.6+%

Size

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

Length	Quantity	
	1pc	2pcs
25 mm	£ 134.00	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	£ 53.50	£ 64.50	£ 89.00	£ 148.00
200 mm	£ 63.50	£ 79.00	£ 146.00	
500 mm	£ 86.50	£ 145.00		
1000 mm	£ 144.00	£ 261.00		

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

TI008010

Side Length 50mm
 Purity 99.6+%

Side Length (of longer side)50mm

Size

Web Code
 943-781-460

Length	Quantity	
	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	£ 209.00	£ 259.00	£ 459.00
200 mm	£ 252.00	£ 386.00	
500 mm	£ 447.00		

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	£ 198.00	£ 244.00	£ 390.00
200 mm	£ 237.00	£ 331.00	£ 663.00
500 mm	£ 379.00	£ 658.00	
1000 mm	£ 651.00		

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

TI007068

Outside Diameter 1.00mm
 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	£ 190.00	£ 272.00	£ 520.00	£ 932.00

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

TI007070	Outside Diameter..... 1.05mm Inside Diameter..... 0.75mm Temper..... Annealed	Wall Thickness..... 0.15mm Purity..... 99.6+%			
Size	Quantity				
Web Code	Length	1pc	2pcs	5pcs	
414-378-307	100 mm	£ 198.00	£ 244.00	£ 390.00	
797-294-422	200 mm	£ 237.00	£ 331.00	£ 663.00	
661-800-346	500 mm	£ 379.00	£ 658.00		
328-012-513	1000 mm	£ 651.00			
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	Quantity				
Web Code	Length	1pc	2pcs	5pcs	
772-144-387	230 mm	£ 200.00	£ 250.00	£ 342.00	
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	Quantity				
Web Code	Length	1pc	2pcs	5pcs	
550-158-262	100 mm	£ 128.00	£ 158.00	£ 264.00	
054-267-481	200 mm	£ 152.00	£ 224.00	£ 452.00	
934-343-170	500 mm	£ 256.00	£ 450.00		
272-244-568	1000 mm	£ 444.00			
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	Quantity				
Web Code	Length	1pc	2pcs	5pcs	
656-944-268	100 mm	£ 128.00	£ 158.00	£ 264.00	
492-647-132	200 mm	£ 152.00	£ 224.00	£ 452.00	
863-991-063	500 mm	£ 256.00	£ 450.00		
054-380-668	1000 mm	£ 444.00			
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	Quantity				
Web Code	Length	1pc	2pcs	5pcs	
139-154-472	100 mm	£ 113.00	£ 138.00	£ 183.00	
322-700-154	200 mm	£ 132.00	£ 164.00	£ 289.00	
295-841-870	500 mm	£ 174.00	£ 287.00		
686-703-660	1220 mm	£ 328.00			
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	Quantity				
Web Code	Length	1pc	2pcs	5pcs	
725-038-271	100 mm	£ 120.00	£ 147.00	£ 217.00	
629-775-405	200 mm	£ 141.00	£ 186.00	£ 358.00	
721-931-142	500 mm	£ 209.00	£ 356.00		
173-953-754	1000 mm	£ 350.00			
Typical Analysis : Al 300, Ca 20, Cr 50, Cu 5, Fe 1500, Mn 100, Ni 50, Si 300, Sn 200, C 300, H 60, N 150, O 2000.					
TI007126	Outside Diameter..... 2.65mm Inside Diameter..... 2.45mm Temper..... Hard	Wall Thickness..... 0.1mm Purity..... 99.6+%			
Size	Quantity				
Web Code	Length	10pcs	25pcs	50pcs	100pcs
117-672-939	4 mm	£ 111.00	£ 140.00	£ 180.00	£ 250.00
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

TI007210

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

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

Size Web Code	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
832-381-277	100 mm	£ 105.00	£ 127.00	£ 170.00	£ 267.00
047-658-559	200 mm	£ 121.00	£ 149.00	£ 264.00	
957-319-600	500 mm	£ 162.00	£ 262.00		
664-952-794	1000 mm	£ 256.00			

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

TI007250

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

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

Size Web Code	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
119-099-329	100 mm	£ 102.00	£ 122.00	£ 153.00	£ 202.00
887-420-548	200 mm	£ 116.00	£ 142.00	£ 198.00	£ 324.00
927-568-528	500 mm	£ 144.00	£ 196.00		
946-070-401	1000 mm	£ 190.00	£ 318.00		

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

TI007295

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

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

Size Web Code	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
481-675-901	100 mm	£ 116.00	£ 141.00	£ 191.00	£ 307.00
356-826-007	200 mm	£ 134.00	£ 167.00	£ 303.00	£ 531.00
504-026-630	500 mm	£ 182.00	£ 301.00		
206-109-979	1000 mm	£ 294.00	£ 525.00		

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

TI007350

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

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

Size Web Code	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
739-151-280	100 mm	£ 113.00	£ 137.00	£ 174.00	£ 271.00
393-908-800	200 mm	£ 130.00	£ 161.00	£ 267.00	
238-601-445	500 mm	£ 165.00	£ 265.00		
825-177-227	1000 mm	£ 258.00			

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**
 Inside Diameter **5.53mm**
 Temper **Annealed**

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

Size Web Code	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
258-804-851	100 mm	£ 116.00	£ 141.00	£ 191.00	£ 307.00
350-610-838	200 mm	£ 134.00	£ 167.00	£ 303.00	
826-351-383	500 mm	£ 182.00	£ 301.00		
293-913-295	1000 mm	£ 294.00			

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

TI007370

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

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

Size Web Code	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
223-418-007	100 mm	£ 113.00	£ 137.00	£ 174.00	£ 271.00
106-208-414	200 mm	£ 130.00	£ 161.00	£ 267.00	
648-580-126	500 mm	£ 165.00	£ 265.00		
036-921-236	1000 mm	£ 258.00			

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

TI007401

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

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

Size Web Code	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
060-031-005	100 mm	£ 95.00	£ 115.00	£ 135.00	£ 159.00
635-270-033	200 mm	£ 104.00	£ 128.00	£ 156.00	£ 219.00
520-055-962	500 mm	£ 122.00	£ 154.00	£ 247.00	
854-966-646	1000 mm	£ 142.00	£ 213.00		

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

TI007461

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

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

Size

Web Code	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
026-656-727	100 mm	£ 106.00	£ 127.00	£ 158.00	£ 220.00
886-397-128	200 mm	£ 120.00	£ 147.00	£ 216.00	
640-012-142	500 mm	£ 149.00	£ 213.00		
429-596-619	1000 mm	£ 207.00			

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	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
284-117-036	100 mm	£ 106.00	£ 127.00	£ 158.00	£ 220.00
514-633-570	200 mm	£ 120.00	£ 147.00	£ 216.00	
329-199-253	500 mm	£ 149.00	£ 213.00		
149-909-352	1000 mm	£ 207.00			

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	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
738-669-986	100 mm	£ 107.00	£ 129.00	£ 162.00	£ 234.00
333-737-954	200 mm	£ 123.00	£ 151.00	£ 229.00	£ 384.00
717-241-244	500 mm	£ 153.00	£ 227.00		
655-150-249	1000 mm	£ 220.00	£ 377.00		

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	Length	Quantity			
		1pc	2pcs	5pcs	10pcs
893-777-018	100 mm	£ 114.00	£ 137.00	£ 171.00	£ 246.00
722-128-135	200 mm	£ 129.00	£ 159.00	£ 242.00	£ 401.00
266-023-212	500 mm	£ 160.00	£ 239.00		
252-905-815	1000 mm	£ 231.00	£ 394.00		

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

TI006030

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

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



Web Code	Quantity	
	Weight	1 Pot
350-340-381	50 g	£ 176.00

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

May be suitable for additive manufacturing research and development purposes.

Shipping Restriction. Additional shipment charges apply which are dependent on destination. Please check the individual item on our website or contact us for further details.

TI006075

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

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



Web Code	Quantity	
	Weight	1 Pot
471-838-560	100 g	£ 211.00

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

May be suitable for additive manufacturing research and development purposes.

Shipping Restriction. 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

TI006021

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

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



Web Code
 145-365-376

Quantity	Weight	1 Pot
	50 g	£ 176.00

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

May be suitable for additive manufacturing research and development purposes.

Shipping Restriction. Additional shipment charges apply which are dependent on destination. Please check the individual item on our website or contact us for further details.

TI006022

Max. Particle size **75micron**

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



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

Quantity	Weight	1 Pot
	50 g	£ 145.00
	100 g	£ 186.00
	200 g	£ 225.00
	500 g	£ 376.00

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

Shipping Restriction. Additional shipment charges apply which are dependent on destination. Please check the individual item on our website or contact us for further details.

TI006076

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

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



Web Code
 679-009-014

Quantity	Weight	1 Pot
	50 g	£ 163.00

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

May be suitable for additive manufacturing research and development purposes.

Shipping Restriction. 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	£ 115.00
	100 g	£ 136.00
	200 g	£ 167.00
	500 g	£ 228.00
	1000 g	£ 388.00

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

Shipping Restriction. 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**

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

Web Code
 744-070-240

Quantity	Weight	1 Pot
	20 g	£ 99.00

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

TI006101

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

High Purity **99.99+%**

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

Quantity	Weight	1 Pot
	20 g	£ 139.00
	50 g	£ 222.00
	100 g	£ 375.00

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.

Metal – Titanium

Titanium

Ti



Lump

TI006102

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

Web Code	Quantity		1 Pot
	Weight		
466-661-763	20 g		£ 133.00
036-450-754	50 g		£ 197.00
259-017-715	100 g		£ 326.00

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

TI006111

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

Web Code	Quantity		1 Pot
	Weight		
797-622-142	20 g		£ 164.00
421-821-863	50 g		£ 279.00
217-107-759	100 g		£ 479.00

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

TI006100

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

Web Code	Quantity		1 Pot
	Weight		
128-330-856	20 g		£ 118.00
041-351-482	50 g		£ 169.00
168-929-050	100 g		£ 270.00

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

TI006110

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

Web Code	Quantity		1 Pot
	Weight		
609-177-118	20 g		£ 160.00
147-144-895	50 g		£ 259.00
393-112-098	100 g		£ 439.00

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



Sphere

TI006830

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

Web Code	Quantity		1 Pot
	Spheres		
220-739-924	50 pcs		£ 113.00
757-094-570	100 pcs		£ 187.00
347-398-370	200 pcs		£ 331.00

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.



Single Crystal

TI002122

Oriented **(0001)** Thickness **1mm**
 Condition..... **Unpolished**

Web Code	Quantity		1pc
	Size		
366-248-096	3x5		£ POA

TI002120

Oriented **(0001)** Thickness **1mm**
 Diameter..... **5mm** Condition..... **Unpolished**

Web Code	Quantity		1pc
769-085-275			£ POA

TI002121

Oriented **(0001)** Thickness **1mm**
 Diameter..... **8mm** Condition..... **Unpolished**

Web Code	Quantity		1pc
690-308-068			£ POA

Metal – Titanium

INDEX

B

Bar, Titanium 41

F

Foil, Titanium 20

L

Lump, Titanium 45

M

Mesh, Titanium 34

Microfoil, Titanium 19

P

Powder, Titanium 44

R

Rod, Titanium 37

S

Sheet, Titanium 33

Single Crystal, Titanium 46

Sphere, Titanium 46

Sputtering Target, Titanium 33

T

Titanium (Ti) 19

Tube, Titanium 41

W

Wire .. Titanium 35