

Goodfellow

Serving The Needs of Science and Industry Worldwide

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

Weltweiter Lieferant für Wissenschaft und Industrie

Metals and Alloys
Métaux et Alliages
Metalle und Legierungen

Ceramics
Céramiques
Keramiken

Polymers
Polymères
Polymere

Composites
Composites
Verbundwerkstoffe



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Standard Price List for Stainless Steel - AISI 304 (Fe/Cr18/Ni10)

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Introduction

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

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

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

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

Materials

Metals and Alloys

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

Ceramics

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

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

Polymers

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

Compounds & Intermetallics

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

Composites

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

Glasses

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

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

Product Descriptions



Bar

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

Tolerances

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



Bolt

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

Tolerances

Ceramics: ANSI B18.6.7M-1985



Chopped Fibre

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

Tolerances

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



Crucible

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

Tolerances

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



Fabric

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

Tolerances

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



Fibre

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

Tolerances

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



Film

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

Tolerances

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



Flake

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

Tolerances

Dimensions shown are nominal

Product Descriptions



Foam

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



Foil

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

Tolerances

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



Granule

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

Tolerances

Dimensions shown are nominal



Honeycomb

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



Insulated Wire

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

Tolerances

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



Laminate

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

Tolerances

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



Lump

A solid piece of material with no defined shape.

Tolerances

Dimensions shown are nominal



Mesh

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

Tolerances

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

Product Descriptions



Metallised Film

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

Tolerances

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



Microfoil

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

Tolerances

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



Microleaf

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

Tolerances

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



Monofilament

A single strand of a non-metallic material.

Tolerances

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



Non-Woven Fabric

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

Tolerances

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



Nut

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

Tolerances

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



Powder

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

Tolerances

Dimensions shown are nominal

Product Descriptions



Rod

A straight length of circular section material.

Tolerances

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



Sheet

Flat material with a thickness > 0.5mm.

Tolerances

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



Single Crystal

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

Tolerances

Orientation:	± 3°
Size:	Sizes shown are nominal



Sphere

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

Tolerances

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



Sputtering Target

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

Tolerances

Thickness:	± 0.5mm
Size:	± 0.5mm



Tube

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

Tolerances

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



Washer

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

Tolerances

Ceramics:	see item
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Product Descriptions



Wire

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

Tolerances

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

Hazards Information

HAZARDS

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

HAZARD SYMBOLS



C

Corrosive

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



D

Dangerous when wet

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



E

Explosive

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



F+

Extremely flammable

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



Xn

Harmful

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



F

Highly flammable

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



Xi

Irritant

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



R

Radioactive

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



T

Toxic

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



T+

Very Toxic

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

General Information

Analyses

Typical Analysis :

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

Purity

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

High Purity

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

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

Supports

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

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

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

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

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

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

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

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

Vacuum tight

Vacuum tight foils show no detectable leakage when tested with a helium mass spectrometer with a sensitivity of 10^{-9} atm-cm³.s⁻¹.

Continuous Lengths

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

Technical Data and Information

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

Tolerances

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

Order information

General Information

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

Prices

All the prices listed are total (lot) prices for the sizes and quantities listed. Prices are subject to change without notice.

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

Transport Restriction

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

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

Delivery

Split shipment

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

Special Analysis, Supports or Tolerances

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

Cancellations

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

Express Service

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

Shipment

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

Despatch

Orders will normally be despatched within 48 hours of receipt.

Non delivery

If we have notified you of despatch of goods and you have not received delivery within 7 days, please contact us.

Insurance

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

Export Restrictions

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

Materials Handling

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

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

Terms of payment

Our normal terms of payment are net 30 days from date of invoice. Any alternative terms of payment are to be agreed with us in writing at the time of placing an order. Customers may be asked to pay cash with order or cash against pro-forma invoice with their first order. In order to establish a credit account we will require details of your bankers, along with two trade references.

Order information

Credit account

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

Credit card payments

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

Mastercard, VISA, American Express, DELTA and Switch.

VAT

VAT number: GB 212 8527 79

UK

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

EU

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

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

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

Export

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

Return of goods

We will only accept return of goods provided we are contacted BEFORE the goods are returned. When we agree to the return we will issue a Goods Return Number and give instructions for the method of return of the goods. Goods will not be accepted for return without a valid Goods Return Number. Due to the nature of some of our materials, it is imperative that you check any possible transport restrictions with your proposed freight company.

Claims

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

Goods ordered in error

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

Conditions of sale

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

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

Exclusions

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

Law

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

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

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

Order information

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

Copies of our General Terms and Conditions are available upon request or can be downloaded from our websites at www.goodfellow.com or www.goodfellowusa.com.

Company Details

Company Structure

The Goodfellow Group consists of five companies:

Goodfellow Cambridge Limited

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

Goodfellow Corporation

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

Goodfellow GmbH

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

Goodfellow SARL

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

Goodfellow (Shanghai) Trading Co., Ltd

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

COMPANY DETAILS

Goodfellow Cambridge Limited

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USA
A Pennsylvania corporation
EIN 23-2557381

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Siren : 381486836
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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

Stainless Steel - AISI 304

Fe/Cr18/Ni10

Stainless steels are iron based alloys containing at least 10.5% Chromium. They achieve their stainless characteristics through the formation of an invisible and adherent Chromium rich oxide film. Alloy 304 is a general purpose austenitic stainless steel with a face centered cubic structure. It is essentially non-magnetic in the annealed condition and can only be hardened by cold working. The lower Carbon content compared with alloy 302 gives better corrosion resistance in welded structures.

Physical Properties

Density 7.93 g cm⁻³
 Melting point 1400-1455 C

Thermal Properties

Coefficient of thermal expansion @20-100C 18.0 x10⁻⁶ K⁻¹
 Thermal conductivity @23C 16.3 W m⁻¹ K⁻¹

Electrical Properties

Electrical resistivity 70-72 µOhmcm

Mechanical Properties

Elongation at break < 60 %
 Hardness - Brinell 160-190
 Izod impact strength 20-136 J m⁻¹
 Modulus of elasticity 190-210 GPa
 Tensile strength 460-1100 MPa



Foil

FE220200 Thickness 0.005mm

Temper As rolled

Sizes LT

Web Code
 149-090-257
 810-321-505
 067-734-292

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 347.00	USD 420.00	USD 569.00	USD 741.00	USD 993.00
50 x 50 mm	USD 516.00	USD 660.00	USD 948.00	USD 1278.00	USD 1753.00
100 x 100 mm	USD 856.00	USD 1140.00	USD 1708.00	USD 2352.00	

Coil

Web Code
 600-487-497
 417-304-100
 452-735-390

Width 100mm

Length	Quantity
	1 Reel
0.2 m	USD 1210.00
0.5 m	USD 1806.00
1 m	USD 2497.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220130 Thickness 0.006mm



NLT Sizes

Web Code
 020-533-709
 321-836-143

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 287.00	USD 352.00	USD 501.00	USD 812.00	USD 1435.00
50 x 50 mm	USD 413.00	USD 638.00	USD 1372.00	USD 2554.00	USD 4917.00

Sizes LT

Web Code
 743-840-511

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 316.00	USD 387.00	USD 552.00	USD 894.00	USD 1578.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220207 Thickness 0.007mm

Temper As rolled

Sizes LT

Web Code
 845-770-788
 163-108-876
 530-046-202

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 334.00	USD 403.00	USD 541.00	USD 702.00	USD 938.00
50 x 50 mm	USD 492.00	USD 625.00	USD 893.00	USD 1200.00	USD 1643.00
100 x 100 mm	USD 807.00	USD 1071.00	USD 1598.00	USD 2197.00	

Coil

Web Code
 093-374-627
 340-449-713
 458-108-737

Width 100mm

Length	Quantity
	1 Reel
0.2 m	USD 1140.00
0.5 m	USD 1696.00
1 m	USD 2342.00

Discs

Web Code
 408-316-799
 998-730-849
 779-474-645
 439-321-805
 123-978-779
 198-839-318
 831-866-573

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 408.00	USD 477.00	USD 633.00
6 mm	USD 452.00	USD 539.00	USD 731.00
8 mm	USD 496.00	USD 602.00	USD 830.00
10 mm	USD 540.00	USD 664.00	USD 929.00
15 mm	USD 649.00	USD 819.00	USD 1175.00
25 mm	USD 869.00	USD 1131.00	USD 1668.00
50 mm	USD 1421.00	USD 1913.00	

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Foil

FE220150 Thickness 0.008mm



NLT Sizes

Web Code
 043-407-979
 331-129-878

Size	Quantity		
	1pc	2pcs	5pcs
50 x 50 mm	USD 388.00	USD 612.00	USD 1306.00
100 x 100 mm	USD 1037.00	USD 1925.00	

Sizes LT

Web Code
 045-137-113
 072-621-319

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 275.00	USD 334.00	USD 485.00
50 x 50 mm	USD 427.00	USD 673.00	USD 1437.00

Discs

Web Code
 285-093-741
 636-718-780
 589-849-143
 731-145-458
 393-176-763
 147-093-377

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 415.00	USD 488.00	USD 679.00
6 mm	USD 447.00	USD 534.00	USD 754.00
8 mm	USD 480.00	USD 581.00	USD 857.00
10 mm	USD 513.00	USD 629.00	USD 1038.00
15 mm	USD 594.00	USD 842.00	
25 mm	USD 964.00		

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220209 Thickness 0.01mm

Temper As rolled

NLT Sizes

Web Code
 439-794-396

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 x 100 mm	USD 490.00	USD 625.00	USD 897.00	USD 1247.00	

Sizes LT

Web Code
 487-604-431
 979-827-466
 160-502-602

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 250.00	USD 286.00	USD 360.00	USD 450.00	USD 585.00
50 x 50 mm	USD 330.00	USD 399.00	USD 539.00	USD 703.00	USD 943.00
100 x 100 mm	USD 539.00	USD 688.00	USD 987.00	USD 1372.00	

Coil

Web Code
 373-052-999
 780-872-687
 577-729-188
 219-642-825

Length	Quantity	
	1 Reel	
0.1 m	USD 562.00	
0.2 m	USD 705.00	
0.5 m	USD 989.00	
1 m	USD 1436.00	

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220170 Thickness 0.01mm



NLT Sizes

Web Code
 340-650-751

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
100 x 100 mm	USD 986.00	USD 1824.00		

Sizes LT

Web Code
 285-482-324
 391-590-073
 133-593-594

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 263.00	USD 317.00	USD 469.00	USD 748.00
50 x 50 mm	USD 367.00	USD 586.00	USD 1243.00	
100 x 100 mm	USD 1085.00	USD 2006.00		

Discs

Web Code
 306-668-097
 333-500-829
 687-602-762
 950-349-446
 793-682-058
 210-250-447

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 408.00	USD 478.00	USD 664.00
6 mm	USD 437.00	USD 520.00	USD 732.00
8 mm	USD 467.00	USD 562.00	USD 838.00
10 mm	USD 496.00	USD 605.00	USD 1009.00
15 mm	USD 569.00	USD 816.00	
25 mm	USD 928.00		

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Foil

FE220210

Thickness 0.0125mm

Temper Hard

Size

Web Code

437-331-900
 651-783-336
 589-967-829
 367-279-826
 407-864-093

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

Quantity	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 213.00	USD 233.00	USD 278.00	USD 333.00	USD 419.00
50 x 50 mm	USD 256.00	USD 294.00	USD 374.00	USD 469.00	USD 612.00
100 x 100 mm	USD 342.00	USD 416.00	USD 566.00	USD 741.00	
150 x 150 mm	USD 428.00	USD 538.00	USD 759.00		
300 x 300 mm	USD 686.00	USD 903.00			

Coil

Web Code

163-013-594
 666-497-753

Width 300mm

Length

0.5 m
 1 m

Quantity

1 Reel
 USD 884.00
 USD 1161.00

Discs

Web Code

412-350-612
 543-825-633
 978-210-077
 276-261-718
 532-721-663
 590-211-752
 776-474-720

Diameter

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

Quantity

Quantity	10 discs	20 discs	50 discs
4 mm	USD 336.00	USD 379.00	USD 482.00
6 mm	USD 348.00	USD 396.00	USD 509.00
8 mm	USD 360.00	USD 413.00	USD 536.00
10 mm	USD 372.00	USD 430.00	USD 563.00
15 mm	USD 402.00	USD 472.00	USD 630.00
25 mm	USD 462.00	USD 557.00	USD 764.00
50 mm	USD 612.00	USD 770.00	USD 1102.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220211

Thickness 0.015mm

Temper As rolled

NLT Sizes

Web Code

261-696-445

Size

300 x 300 mm

Quantity

Quantity	1pc	2pcs	5pcs	10pcs	20pcs
300 x 300 mm	USD 661.00	USD 868.00			

Sizes LT

Web Code

722-325-908
 186-589-526
 576-219-995
 647-346-112
 841-515-042

Size

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

Quantity

Quantity	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 210.00	USD 230.00	USD 273.00	USD 326.00	USD 410.00
50 x 50 mm	USD 251.00	USD 288.00	USD 365.00	USD 456.00	USD 593.00
100 x 100 mm	USD 333.00	USD 404.00	USD 548.00	USD 715.00	
150 x 150 mm	USD 415.00	USD 520.00	USD 731.00		
300 x 300 mm	USD 694.00	USD 911.00			

Coil

Web Code

240-690-675
 086-334-935

Width 300mm

Length

0.5 m
 1 m

Quantity

1 Reel
 USD 856.00
 USD 1123.00

Discs

Web Code

916-952-025
 619-002-979
 375-372-963
 921-620-111
 202-517-417
 314-685-636
 335-708-171

Diameter

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

Quantity

Quantity	10 discs	20 discs	50 discs
4 mm	USD 335.00	USD 377.00	USD 479.00
6 mm	USD 346.00	USD 393.00	USD 505.00
8 mm	USD 358.00	USD 410.00	USD 530.00
10 mm	USD 369.00	USD 426.00	USD 556.00
15 mm	USD 398.00	USD 466.00	USD 620.00
25 mm	USD 455.00	USD 547.00	USD 748.00
50 mm	USD 598.00	USD 750.00	USD 1070.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

Alloy – Stainless Steel - AISI 304

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Foil

FE220215

Thickness 0.02mm

Temper As rolled

NLT Sizes

Web Code
988-883-716

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
200 x 300 mm	USD 543.00	USD 701.00	USD 1017.00		

Sizes LT

Web Code
282-558-774
138-664-971
974-788-474
639-741-550
624-666-001

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 208.00	USD 226.00	USD 267.00	USD 317.00	USD 397.00
50 x 50 mm	USD 246.00	USD 280.00	USD 352.00	USD 438.00	USD 568.00
100 x 100 mm	USD 322.00	USD 388.00	USD 523.00	USD 679.00	USD 909.00
150 x 150 mm	USD 398.00	USD 496.00	USD 693.00	USD 920.00	USD 1300.00
200 x 300 mm	USD 570.00	USD 736.00	USD 1068.00		

Coil

Web Code
376-694-729
423-139-807
892-484-943

Length	Quantity	
	1 Reel	
0.5 m	USD 700.00	
1 m	USD 900.00	
2 m	USD 1184.00	

Discs

Web Code
601-860-014
232-511-714
063-966-334
995-798-299
474-778-858
347-354-285
419-281-495

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 333.00	USD 375.00	USD 476.00
6 mm	USD 344.00	USD 390.00	USD 500.00
8 mm	USD 354.00	USD 405.00	USD 523.00
10 mm	USD 365.00	USD 420.00	USD 547.00
15 mm	USD 392.00	USD 458.00	USD 607.00
25 mm	USD 445.00	USD 533.00	USD 726.00
50 mm	USD 578.00	USD 722.00	USD 1025.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220221

Thickness 0.025mm

Temper Hard

Size

Web Code
890-647-488
330-928-052
366-005-996
750-746-656
843-329-656

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 171.00	USD 183.00	USD 210.00	USD 245.00	USD 304.00
50 x 50 mm	USD 193.00	USD 214.00	USD 259.00	USD 314.00	USD 401.00
100 x 100 mm	USD 237.00	USD 276.00	USD 356.00	USD 452.00	USD 595.00
150 x 150 mm	USD 280.00	USD 337.00	USD 453.00	USD 589.00	
300 x 300 mm	USD 410.00	USD 521.00	USD 745.00		

Coil

Web Code
086-844-112
416-210-828
026-355-013

Length	Quantity	
	1 Reel	
0.5 m	USD 534.00	
1 m	USD 674.00	
2 m	USD 887.00	

Discs

Web Code
658-224-073
278-003-444
750-427-615
803-454-155
431-773-057
971-626-899
453-360-125

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 302.00	USD 340.00	USD 434.00
6 mm	USD 308.00	USD 349.00	USD 447.00
8 mm	USD 314.00	USD 357.00	USD 461.00
10 mm	USD 320.00	USD 366.00	USD 474.00
15 mm	USD 336.00	USD 387.00	USD 508.00
25 mm	USD 366.00	USD 430.00	USD 576.00
50 mm	USD 442.00	USD 538.00	USD 746.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220240

Thickness 0.038mm

Temper Hard

Size

Web Code
051-588-747
781-805-760
783-446-808
581-022-755
737-827-603

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 165.00	USD 175.00	USD 197.00	USD 227.00	USD 278.00
50 x 50 mm	USD 181.00	USD 198.00	USD 233.00	USD 278.00	USD 351.00
100 x 100 mm	USD 214.00	USD 244.00	USD 306.00	USD 381.00	USD 496.00
150 x 150 mm	USD 246.00	USD 289.00	USD 379.00		
300 x 300 mm	USD 344.00	USD 427.00	USD 597.00		

Coil

Web Code
032-741-308
977-682-547
210-324-138

Length	Quantity	
	1 Reel	
0.5 m	USD 470.00	
1 m	USD 583.00	
2 m	USD 743.00	

Discs

Web Code
428-201-304
028-895-025
099-746-948
933-475-453
856-434-003
447-306-152
818-865-395

Diameter	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 288.00	USD 322.00	USD 404.00
6 mm	USD 292.00	USD 327.00	USD 413.00
8 mm	USD 296.00	USD 333.00	USD 423.00
10 mm	USD 300.00	USD 339.00	USD 432.00
15 mm	USD 311.00	USD 354.00	USD 455.00
25 mm	USD 331.00	USD 383.00	USD 501.00
50 mm	USD 383.00	USD 456.00	USD 617.00

Typical Analysis : Not applicable

Alloy – Stainless Steel - AISI 304

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Foil

FE220250

Thickness 0.05mm

Temper Hard

Size

Web Code

290-517-823
 314-736-486
 342-055-988
 756-999-490
 624-925-319

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

USD 126.00	USD 132.00	USD 147.00	USD 168.00	USD 207.00
USD 133.00	USD 142.00	USD 162.00	USD 190.00	USD 238.00
USD 147.00	USD 161.00	USD 193.00	USD 234.00	USD 301.00
USD 161.00	USD 181.00	USD 225.00	USD 279.00	USD 363.00
USD 203.00	USD 241.00	USD 318.00		

Coil

Web Code

478-445-240
 115-662-565
 457-820-173
 227-515-355

Width 305mm

Length

0.5 m
 1 m
 2 m
 5 m

Quantity

1 Reel

USD 276.00
 USD 322.00
 USD 387.00
 USD 578.00

Discs

Web Code

646-836-039
 854-510-581
 813-820-356
 727-548-038
 943-504-496
 938-057-469
 257-178-773

Diameter

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

Quantity

10 discs

20 discs

50 discs

100 discs

200 discs

500 discs

1000 discs

2000 discs

5000 discs

10000 discs

20000 discs

50000 discs

100000 discs

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Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220260

Thickness 0.075mm

Temper Hard

Size

Web Code

147-344-037
 418-011-831
 251-481-783
 435-217-689
 402-210-760

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

USD 126.00	USD 132.00	USD 146.00	USD 168.00	USD 207.00
USD 133.00	USD 141.00	USD 162.00	USD 189.00	USD 237.00
USD 146.00	USD 161.00	USD 192.00	USD 233.00	USD 299.00
USD 160.00	USD 180.00	USD 223.00	USD 276.00	USD 360.00
USD 201.00	USD 239.00	USD 315.00		

Coil

Web Code

855-524-430
 276-347-984
 543-495-223
 936-904-012

Width 300mm

Length

0.5 m
 1 m
 2 m
 5 m

Quantity

1 Reel

USD 273.00
 USD 318.00
 USD 381.00
 USD 600.00

Discs

Web Code

781-803-074
 725-379-701
 672-467-241
 058-408-834
 301-106-127
 638-272-315
 784-041-044

Diameter

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

Quantity

10 discs

20 discs

50 discs

100 discs

200 discs

500 discs

1000 discs

2000 discs

5000 discs

10000 discs

20000 discs

50000 discs

100000 discs

200000 discs

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Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220271

Thickness 0.1mm

Temper Hard

Size

Web Code

652-671-744
 906-693-149
 732-514-029
 340-690-910
 087-691-237

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

USD 126.00	USD 131.00	USD 146.00	USD 167.00	USD 206.00
USD 132.00	USD 141.00	USD 161.00	USD 188.00	USD 236.00
USD 146.00	USD 160.00	USD 191.00	USD 231.00	USD 296.00
USD 159.00	USD 179.00	USD 221.00	USD 273.00	USD 356.00
USD 200.00	USD 236.00	USD 311.00		

Coil

Web Code

500-081-592
 689-365-297
 893-802-006
 183-799-521

Width 305mm

Length

0.5 m
 1 m
 2 m
 5 m

Quantity

1 Reel

USD 272.00
 USD 316.00
 USD 378.00
 USD 635.00

Discs

Web Code

411-477-823
 840-498-694
 927-052-386
 621-121-811

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Foil

FE220270

Thickness 0.1mm

Temper Annealed

Size

Web Code

005-134-149
 641-763-182
 220-391-742
 548-965-520
 620-688-442

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
USD 126.00	USD 131.00	USD 146.00	USD 167.00	USD 206.00
USD 132.00	USD 141.00	USD 161.00	USD 188.00	USD 236.00
USD 146.00	USD 160.00	USD 191.00	USD 231.00	USD 296.00
USD 159.00	USD 179.00	USD 221.00	USD 273.00	USD 356.00
USD 200.00	USD 236.00	USD 311.00		

Coil

Web Code

940-554-744
 586-060-496
 257-556-778
 194-595-690

Width 305mm

Length

1 Reel
0.5 m USD 272.00
1 m USD 316.00
2 m USD 378.00
5 m USD 635.00

Quantity

Discs

Web Code

324-458-954
 557-364-771
 670-594-340
 824-296-785
 037-091-777
 636-465-992
 558-243-859

Diameter

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

Quantity

10 discs	20 discs	50 discs
USD 254.00	USD 285.00	USD 364.00
USD 255.00	USD 288.00	USD 367.00
USD 257.00	USD 290.00	USD 371.00
USD 259.00	USD 292.00	USD 375.00
USD 263.00	USD 298.00	USD 385.00
USD 272.00	USD 310.00	USD 404.00
USD 293.00	USD 341.00	USD 452.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220280

Thickness 0.125mm

Temper Annealed

Size

Web Code

780-475-561
 559-440-416
 930-053-330
 256-670-282
 083-775-772

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
USD 126.00	USD 131.00	USD 146.00	USD 167.00	USD 206.00
USD 132.00	USD 141.00	USD 161.00	USD 189.00	USD 236.00
USD 146.00	USD 160.00	USD 191.00	USD 231.00	USD 296.00
USD 159.00	USD 179.00	USD 221.00	USD 274.00	USD 356.00
USD 200.00	USD 236.00	USD 311.00		

Coil

Web Code

569-343-116
 471-968-503
 996-074-384
 509-289-920

Width 300mm

Length

1 Reel
0.5 m USD 271.00
1 m USD 315.00
2 m USD 377.00
5 m USD 684.00

Quantity

Discs

Web Code

873-481-674
 185-205-785
 150-724-320
 840-549-115
 068-641-279
 580-162-029
 520-262-293

Diameter

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

Quantity

10 discs	20 discs	50 discs
USD 254.00	USD 285.00	USD 364.00
USD 255.00	USD 288.00	USD 368.00
USD 257.00	USD 290.00	USD 371.00
USD 259.00	USD 292.00	USD 375.00
USD 263.00	USD 298.00	USD 385.00
USD 272.00	USD 310.00	USD 404.00
USD 293.00	USD 341.00	USD 452.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220290

Thickness 0.15mm

Temper Hard

Size

Web Code

792-086-911
 010-872-974
 359-119-860
 889-981-147
 247-645-422

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
USD 126.00	USD 132.00	USD 146.00	USD 167.00	USD 206.00
USD 133.00	USD 141.00	USD 161.00	USD 189.00	USD 237.00
USD 146.00	USD 160.00	USD 192.00	USD 232.00	USD 297.00
USD 160.00	USD 180.00	USD 222.00	USD 275.00	USD 358.00
USD 200.00	USD 237.00	USD 313.00	USD 459.00	

Coil

Web Code

244-929-666
 586-025-397
 058-614-480
 315-537-933

Width 300mm

Length

1 Reel
0.5 m USD 272.00
1 m USD 316.00
2 m USD 379.00
5 m USD 694.00

Quantity

Discs

Web Code

955-683-401
 460-434-346
 554-297-799
 287-217-306
 902-168-068
 771-005-880
 375-737-024

Diameter

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

Quantity

10 discs	20 discs	50 discs
USD 254.00	USD 285.00	USD 364.00
USD 255.00	USD 288.00	USD 368.00
USD 257.00	USD 290.00	USD 372.00
USD 259.00	USD 293.00	USD 375.00
USD 263.00	USD 299.00	USD 385.00
USD 272.00	USD 311.00	USD 404.00
USD 293.00	USD 341.00	USD 453.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

Alloy – Stainless Steel - AISI 304

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Foil

FE220291

Thickness 0.15mm

Temper Annealed

Size

Web Code

796-819-005
 358-609-892
 371-963-879
 818-603-510
 232-625-444

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

	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 126.00	USD 132.00	USD 146.00	USD 167.00	USD 206.00
50 x 50 mm	USD 133.00	USD 141.00	USD 161.00	USD 189.00	USD 237.00
100 x 100 mm	USD 146.00	USD 160.00	USD 192.00	USD 232.00	USD 297.00
150 x 150 mm	USD 160.00	USD 180.00	USD 222.00	USD 275.00	USD 358.00
300 x 300 mm	USD 200.00	USD 237.00	USD 313.00		

Coil

Web Code

334-148-250
 640-751-813
 537-431-701
 182-249-840

Width 300mm

Length

0.5 m
 1 m
 2 m
 5 m

Quantity

1 Reel
0.5 m USD 272.00
1 m USD 316.00
2 m USD 379.00
5 m USD 694.00

Discs

Web Code

343-357-722
 537-502-133
 616-329-636
 066-173-813
 860-164-495
 585-610-614
 742-208-582

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

Quantity

	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 254.00	USD 285.00	USD 364.00
6 mm	USD 255.00	USD 288.00	USD 368.00
8 mm	USD 257.00	USD 290.00	USD 371.00
10 mm	USD 259.00	USD 293.00	USD 375.00
15 mm	USD 263.00	USD 299.00	USD 385.00
25 mm	USD 272.00	USD 311.00	USD 404.00
50 mm	USD 293.00	USD 341.00	USD 453.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220320

Thickness 0.2mm

Temper Annealed



Size

Web Code

314-325-863
 290-736-410
 342-050-261
 756-284-134
 535-518-301

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

	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 125.00	USD 131.00	USD 146.00	USD 167.00	USD 205.00
50 x 50 mm	USD 132.00	USD 140.00	USD 160.00	USD 187.00	USD 234.00
100 x 100 mm	USD 145.00	USD 159.00	USD 189.00	USD 229.00	USD 293.00
150 x 150 mm	USD 158.00	USD 177.00	USD 219.00	USD 270.00	USD 351.00
300 x 300 mm	USD 197.00	USD 233.00	USD 306.00		

Coil

Web Code

167-892-690
 939-792-986
 474-124-792
 265-591-536

Width 305mm

Length

0.5 m
 1 m
 2 m
 5 m

Quantity

1 Reel
0.5 m USD 269.00
1 m USD 312.00
2 m USD 390.00
5 m USD 726.00

Discs

Web Code

573-706-977
 713-364-596
 170-564-583
 320-563-987
 070-499-105
 812-396-651
 549-583-489

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

Quantity

	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 254.00	USD 285.00	USD 363.00
6 mm	USD 255.00	USD 287.00	USD 367.00
8 mm	USD 257.00	USD 290.00	USD 371.00
10 mm	USD 259.00	USD 292.00	USD 375.00
15 mm	USD 263.00	USD 298.00	USD 384.00
25 mm	USD 271.00	USD 310.00	USD 402.00
50 mm	USD 292.00	USD 339.00	USD 449.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220321

Thickness 0.25mm

Temper Hard



Size

Web Code

128-415-452
 235-766-109
 192-001-693
 353-144-776
 782-435-540

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

	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 125.00	USD 130.00	USD 143.00	USD 164.00	USD 201.00
50 x 50 mm	USD 130.00	USD 138.00	USD 156.00	USD 181.00	USD 226.00
100 x 100 mm	USD 141.00	USD 153.00	USD 181.00	USD 216.00	USD 276.00
150 x 150 mm	USD 152.00	USD 169.00	USD 206.00	USD 252.00	USD 325.00
300 x 300 mm	USD 186.00	USD 217.00	USD 280.00		

Coil

Web Code

697-529-084
 030-837-786
 768-961-415
 029-846-325

Width 300mm

Length

0.5 m
 1 m
 2 m
 5 m

Quantity

1 Reel
0.5 m USD 253.00
1 m USD 290.00
2 m USD 349.00
5 m USD 624.00

Discs

Web Code

347-549-683
 246-490-165
 809-704-533
 691-576-377
 738-715-343
 532-935-745
 626-356-314

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

Quantity

	Quantity		
	10 discs	20 discs	50 discs
4 mm	USD 253.00	USD 284.00	USD 362.00
6 mm	USD 255.00	USD 286.00	USD 366.00
8 mm	USD 256.00	USD 288.00	USD 369.00
10 mm	USD 257.00	USD 290.00	USD 372.00
15 mm	USD 261.00	USD 295.00	USD 380.00
25 mm	USD 268.00	USD 305.00	USD 396.00
50 mm	USD 286.00	USD 330.00	USD 435.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

Alloy – Stainless Steel - AISI 304

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Foil

FE220322

Thickness 0.25mm

Temper Annealed



Size

Web Code

697-936-004
 242-011-776
 251-469-522
 433-697-796
 212-221-008

Size

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

1pc

2pcs

Quantity

5pcs

10pcs

20pcs

USD 125.00	USD 130.00	USD 143.00	USD 164.00	USD 201.00
USD 130.00	USD 138.00	USD 156.00	USD 181.00	USD 226.00
USD 141.00	USD 153.00	USD 181.00	USD 216.00	USD 276.00
USD 152.00	USD 169.00	USD 206.00	USD 252.00	USD 325.00
USD 186.00	USD 217.00	USD 280.00		

Coil

Web Code

986-584-339
 527-625-180
 953-142-596
 142-816-134

Width 300mm

Length

0.5 m
 1 m
 2 m
 5 m

1 Reel

Quantity

Quantity

Quantity

Quantity

Quantity

USD 253.00	USD 290.00	USD 349.00	USD 624.00
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Discs

Web Code

829-934-058
 741-752-629
 719-081-952
 885-239-056
 654-877-303
 859-668-244
 458-533-977

Diameter

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

Quantity

10 discs

20 discs

50 discs

USD 253.00	USD 284.00	USD 362.00
USD 255.00	USD 286.00	USD 366.00
USD 256.00	USD 288.00	USD 369.00
USD 257.00	USD 290.00	USD 372.00
USD 261.00	USD 295.00	USD 380.00
USD 268.00	USD 305.00	USD 396.00
USD 286.00	USD 330.00	USD 435.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220326

Thickness 0.40mm

Temper Hard



Size

Web Code

487-986-465
 431-891-848
 324-866-211
 549-103-466
 241-573-139

Size

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

1pc

2pcs

Quantity

5pcs

10pcs

20pcs

USD 125.00	USD 131.00	USD 145.00	USD 165.00	USD 203.00
USD 131.00	USD 139.00	USD 158.00	USD 185.00	USD 230.00
USD 143.00	USD 156.00	USD 185.00	USD 223.00	USD 285.00
USD 156.00	USD 174.00	USD 213.00	USD 262.00	USD 339.00
USD 192.00	USD 225.00	USD 294.00		

Coil

Web Code

659-644-938
 144-844-167
 441-461-552

Width 300mm

Length

0.5 m
 1 m
 2 m

1 Reel

Quantity

Quantity

Quantity

Quantity

Quantity

USD 261.00	USD 301.00	USD 385.00
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Discs

Web Code

460-139-921
 307-933-166
 535-797-842
 005-697-077
 581-667-036
 484-915-340
 151-123-921

Diameter

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

Quantity

10 discs

20 discs

50 discs

USD 253.00	USD 285.00	USD 363.00
USD 255.00	USD 287.00	USD 366.00
USD 257.00	USD 289.00	USD 370.00
USD 258.00	USD 291.00	USD 373.00
USD 262.00	USD 297.00	USD 382.00
USD 270.00	USD 308.00	USD 399.00
USD 289.00	USD 335.00	USD 443.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220324

Thickness 0.5mm

Surface treatment Titanium Nitride coating 2-3 microns



Size

Web Code

552-496-340

Size

25 x 25 mm

1pc

2pcs

Quantity

3pcs

USD 190.00	USD 211.00	USD 229.00
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Typical Analysis : Not applicable

Alloy – Stainless Steel - AISI 304

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Foil

FE220323

Thickness 0.5mm

Temper Annealed



Size

Web Code

316-743-487
 592-931-982
 116-489-324
 561-174-596
 146-820-564

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

Quantity	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 125.00	USD 131.00	USD 145.00	USD 166.00	USD 204.00
50 x 50 mm	USD 132.00	USD 140.00	USD 159.00	USD 186.00	USD 233.00
100 x 100 mm	USD 144.00	USD 158.00	USD 188.00	USD 226.00	USD 290.00
150 x 150 mm	USD 157.00	USD 176.00	USD 216.00	USD 266.00	USD 354.00
300 x 300 mm	USD 195.00	USD 230.00	USD 309.00	USD 502.00	

Coil

Web Code

323-038-431
 352-565-955
 070-745-259

Width 300mm

Length

0.5 m
 1 m
 2 m

Quantity

1 Reel

USD 265.00
 USD 307.00
 USD 406.00

Discs

Web Code

260-327-335
 540-913-573
 614-189-659
 773-708-809
 713-605-914
 200-739-349
 092-419-940

Diameter

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

Quantity

10 discs

USD 254.00
 USD 255.00
 USD 257.00
 USD 258.00
 USD 262.00
 USD 270.00
 USD 291.00

20 discs

USD 285.00
 USD 287.00
 USD 289.00
 USD 292.00
 USD 297.00
 USD 309.00
 USD 337.00

50 discs

USD 363.00
 USD 367.00
 USD 370.00
 USD 374.00
 USD 383.00
 USD 401.00
 USD 447.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220330

Thickness 0.7mm

Temper Annealed



Size

Web Code

964-577-207
 201-564-644
 713-782-083
 819-241-615

Size

50 x 50 mm
 100 x 100 mm
 150 x 150 mm
 500 x 500 mm

Quantity

1pc
 2pcs
 5pcs
 10pcs
 20pcs

Quantity	1pc	2pcs	5pcs	10pcs	20pcs
50 x 50 mm	USD 131.00	USD 138.00	USD 156.00	USD 180.00	USD 221.00
100 x 100 mm	USD 143.00	USD 156.00	USD 183.00	USD 218.00	USD 276.00
150 x 150 mm	USD 155.00	USD 173.00	USD 210.00	USD 257.00	USD 342.00
500 x 500 mm	USD 241.00	USD 316.00			

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220341

Thickness 0.914mm

Surface treatment Titanium Nitride coating 2-3 microns



Size

Web Code

524-175-481
 521-932-799
 241-597-209

Size

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

Quantity

1pc
 2pcs
 5pcs

Quantity	1pc	2pcs	5pcs
25 x 25 mm	USD 189.00	USD 226.00	USD 306.00
50 x 50 mm	USD 260.00	USD 355.00	
100 x 100 mm	USD 577.00		

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

This item is shown as an example of Titanium Nitride (TiN) coated material.

FE220340

Thickness 0.914mm

Temper Annealed



Size

Web Code

244-897-485
 612-181-988
 522-743-581
 342-940-024
 867-506-460

Size

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

Quantity	1pc	2pcs	5pcs	10pcs	20pcs
50 x 50 mm	USD 132.00	USD 141.00	USD 160.00	USD 185.00	USD 229.00
100 x 100 mm	USD 146.00	USD 160.00	USD 191.00	USD 229.00	USD 291.00
150 x 150 mm	USD 160.00	USD 180.00	USD 222.00	USD 274.00	
300 x 300 mm	USD 202.00	USD 239.00	USD 357.00		
500 x 500 mm	USD 258.00	USD 375.00			

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220360

Thickness 1.0mm

Temper Annealed



Size

Web Code

312-322-588

Size

15 x 20 mm

Quantity

1pc
 2pcs
 5pcs
 10pcs
 20pcs

Quantity	1pc	2pcs	5pcs	10pcs	20pcs
15 x 20 mm	USD 127.00	USD 134.00	USD 148.00	USD 169.00	USD 206.00

Discs

Web Code

532-600-958
 299-232-297

Diameter

9.5 mm
 25 mm

Quantity

1 discs

USD 235.00
 USD 245.00

FE220375

Thickness 1.5mm



Size

Web Code

829-894-446
 286-663-785
 816-861-113

Size

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

Quantity

1pc
 2pcs
 5pcs
 10pcs
 20pcs

Quantity	1pc	2pcs	5pcs	10pcs	20pcs
100 x 100 mm	USD 175.00	USD 212.00	USD 308.00	USD 453.00	USD 724.00
150 x 150 mm	USD 193.00	USD 237.00	USD 347.00	USD 508.00	
300 x 300 mm	USD 245.00	USD 311.00	USD 464.00		

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

Alloy – Stainless Steel - AISI 304

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Foil

FE220380

Thickness **2.0mm**

Temper **Annealed**



Size

Web Code
 670-004-528
 297-142-835
 914-092-617

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 x 100 mm	USD 181.00	USD 220.00	USD 321.00	USD 470.00	USD 748.00
150 x 150 mm	USD 201.00	USD 248.00	USD 365.00	USD 534.00	
300 x 300 mm	USD 261.00	USD 333.00	USD 539.00		

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220390

Thickness **3.0mm**

Temper **Annealed**



Size

Web Code
 412-064-297
 891-149-021
 102-354-057
 933-861-668

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
100 x 100 mm	USD 190.00	USD 233.00	USD 341.00	USD 499.00
150 x 150 mm	USD 214.00	USD 267.00	USD 396.00	
300 x 300 mm	USD 288.00	USD 372.00		
500 x 500 mm	USD 397.00			

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE220400

Thickness **4.0mm**



Size

Web Code
 452-750-582

Size	Quantity	
	1pc	2pcs
50 x 50 mm	USD 169.00	USD 203.00



Mesh

FE228710

Nominal Aperture..... **0.38mm**
 Wire diameter..... **0.25mm**
 Open area **37%**

Thickness **0.75mm**
 Wires/inch..... **40x40**
 Type **Plain weave mesh**



Size

Web Code
 530-570-990
 321-365-009
 170-634-909
 329-370-596
 171-322-395

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
100 x 100 mm	USD 196.00	USD 237.00	USD 339.00	USD 446.00
150 x 150 mm	USD 220.00	USD 271.00	USD 392.00	
300 x 300 mm	USD 292.00	USD 372.00	USD 552.00	
600 x 600 mm	USD 435.00	USD 574.00		
900 x 900 mm	USD 578.00	USD 777.00		

FE228720

Nominal Aperture..... **0.54mm**
 Wire diameter..... **0.30mm**
 Open area **37%**

Thickness **0.6mm**
 Wires/inch..... **30x30**
 Type **Plain weave mesh**



Size

Web Code
 224-156-993
 994-243-124
 487-436-354
 580-212-317
 505-502-859

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
100 x 100 mm	USD 209.00	USD 249.00	USD 331.00	USD 475.00
150 x 150 mm	USD 253.00	USD 311.00	USD 430.00	
300 x 300 mm	USD 385.00	USD 497.00	USD 724.00	
600 x 600 mm	USD 648.00	USD 870.00		
900 x 900 mm	USD 911.00	USD 1242.00		



Wire

FE225110

Diameter **0.05mm**

Temper **Annealed**



Length

Web Code
 640-125-199
 015-649-723
 370-096-836
 956-224-202
 528-026-039
 003-255-166

Length	1 Reel
	50 m
100 m	USD 185.00
200 m	USD 224.00
500 m	USD 311.00
1000 m	USD 427.00
2000 m	USD 541.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE225111

Diameter **0.05mm**
 Condition..... **Gold plated wire**

Temper **Annealed**



Length

Web Code
 306-169-160
 245-416-352
 277-127-061
 822-189-551
 464-172-265

Length	1 Reel
	1 m
5 m	USD 273.00
10 m	USD 325.00
20 m	USD 400.00
50 m	USD 549.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

Alloy – Stainless Steel - AISI 304

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Wire

FE225121	Diameter 0.075mm	Temper Hard								
Xn	Length Web Code 592-589-319	Quantity 1 Reel	Length 198 m							
FE225120	Diameter 0.075mm	Temper Annealed								
Xn	Length Web Code 294-850-750 783-568-633 130-155-504 798-770-317 091-757-879 917-798-342	Quantity 1 Reel	Length 50 m 100 m 200 m 500 m 1000 m 2000 m				USD 156.00 USD 179.00 USD 216.00 USD 300.00 USD 411.00 USD 517.00			
Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.										
FE225310	Diameter 0.125mm	Condition. Straight wire								
Xn	Size Web Code	Quantity	Length	1pc	2pcs	5pcs 0.00731g	10pcs #75.4 mm#	20pcs	50pcs USD 121.00	100pcs USD 141.50
FE225130	Diameter 0.25mm	Temper Annealed								
Xn	Length Web Code 501-742-986 212-847-374 763-352-956 954-554-027 154-117-549 722-666-769	Quantity 1 Reel	Length 10 m 20 m 50 m 100 m 200 m 500 m				USD 136.00 USD 150.00 USD 180.00 USD 216.00 USD 282.00 USD 520.00			
Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.										
FE225131	Diameter 0.25mm	Temper Annealed								
Xn	Condition. Gold plated wire Length Web Code 287-992-189 740-004-611 306-376-728 261-017-302	Quantity 1 Reel	Length 1 m 2 m 5 m 10 m				USD 328.00 USD 403.00 USD 552.00 USD 720.00			
Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.										
FE225330	Diameter 0.5mm	Condition. Straight wire								
Xn	Temper As drawn Size Web Code	Quantity	Length	1pc	2pcs	5pcs 1.6g	10pcs #1000 mm#	20pcs		
FE225140	Diameter 0.5mm	Temper Annealed								
Xn	Length Web Code 122-684-691 941-500-762 929-241-181 144-100-661 800-585-288	Quantity 1 Reel	Length 10 m 20 m 50 m 100 m 200 m				USD 141.00 USD 157.00 USD 190.00 USD 231.00 USD 330.00			
Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.										
FE225141	Diameter 0.6mm	Temper Annealed								
Xn	Length Web Code 511-502-605 751-968-170 345-079-085 155-923-051 202-961-446	Quantity 1 Reel	Length 10 m 20 m 50 m 100 m 200 m				USD 144.00 USD 161.00 USD 197.00 USD 241.00 USD 367.00			
Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.										
FE225340	Diameter 1.0mm	Condition. Straight wire								
Xn	Temper As drawn Size Web Code	Quantity	Length	1pc	2pcs	5pcs 6.2g	10pcs #1000 mm#	20pcs		

Alloy – Stainless Steel - AISI 304

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Wire

FE225150

Diameter 1.0mm

Temper Hard



Length

Web Code

672-797-756
 503-269-503
 099-714-886
 464-357-982
 388-059-705

Length	Quantity	1 Reel
10 m	USD 151.00	
20 m	USD 171.00	
50 m	USD 214.00	
100 m	USD 267.00	
200 m	USD 380.00	

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.



Insulated Wire

FE225820

Conductor diameter 0.10mm
 Insulation Polyimide

Insulation thickness 0.0025-0.005mm



Length

Web Code

112-539-901
 499-976-593
 503-720-526
 733-482-745
 406-871-406

Length	Quantity	1 Reel
5 m	USD 192.00	
10 m	USD 221.00	
20 m	USD 263.00	
50 m	USD 462.00	
100 m	USD 801.00	



Rod

FE227902

Diameter 2.0mm

Temper As drawn



Size

Web Code
 517-685-688
 078-375-221

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
500 mm	USD 94.50	USD 110.00	USD 142.00	USD 182.00	USD 249.00
1000 mm	USD 105.00	USD 126.00	USD 166.00	USD 217.00	

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227903

Diameter 3.0mm

Temper As drawn



Size

Web Code
 184-959-845
 890-328-330

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
500 mm	USD 94.50	USD 110.00	USD 142.00	USD 182.00	USD 249.00
1000 mm	USD 105.00	USD 126.00	USD 166.00	USD 217.00	

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227904

Diameter 4.0mm

Temper As drawn



Size

Web Code
 867-216-000
 316-758-882

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
500 mm	USD 97.50	USD 114.00	USD 148.00	USD 191.00	USD 262.00
1000 mm	USD 109.00	USD 131.00	USD 175.00	USD 230.00	

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227908

Diameter 5.0mm

Temper As drawn



Size

Web Code
 478-182-004
 482-772-004

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
500 mm	USD 124.00	USD 152.00	USD 208.00	USD 301.00
1000 mm	USD 147.00	USD 185.00	USD 285.00	

FE227910

Diameter 6.35mm

Temper As drawn



Size

Web Code
 325-019-885
 177-154-723

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
500 mm	USD 125.00	USD 154.00	USD 211.00	USD 311.00
1000 mm	USD 149.00	USD 187.00	USD 295.00	

FE227915

Diameter 10.0mm

Temper As drawn



Size

Web Code
 695-857-221
 079-102-548
 757-059-258
 266-212-655

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 139.00	USD 206.00	USD 247.00	USD 298.00
200 mm	USD 155.00	USD 228.00	USD 282.00	USD 349.00
500 mm	USD 186.00	USD 272.00	USD 376.00	
1000 mm	USD 220.00	USD 324.00		

Typical Analysis : Not applicable

Alloy – Stainless Steel - AISI 304

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Rod

FE227920

Diameter 12.7mm

Temper As drawn



Size

Web Code
 831-482-173
 847-661-685
 787-014-307
 917-723-433

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 137.00	USD 203.00	USD 242.00	USD 291.00
200 mm	USD 152.00	USD 224.00	USD 275.00	USD 337.00
500 mm	USD 181.00	USD 265.00	USD 352.00	
1000 mm	USD 214.00	USD 311.00		

FE227930

Diameter 25mm

Temper As drawn



Size

Web Code
 590-645-540
 317-654-404
 857-217-115
 993-213-637

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 195.00	USD 232.00	USD 283.00	USD 345.00
200 mm	USD 216.00	USD 261.00	USD 329.00	USD 479.00
500 mm	USD 257.00	USD 320.00	USD 536.00	
1000 mm	USD 303.00	USD 453.00		



Tube

FE227105

Outside Diameter 0.2mm
 Inside Diameter 0.1mm

Wall Thickness 0.05mm
 Temper Hard



Size

Web Code
 966-857-900
 857-239-261
 154-907-958
 363-490-499

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 215.00	USD 247.00	USD 320.00	USD 418.00	USD 521.00
200 mm	USD 237.00	USD 278.00	USD 369.00	USD 488.00	USD 669.00
500 mm	USD 280.00	USD 340.00	USD 467.00	USD 733.00	USD 1249.00
1000 mm	USD 330.00	USD 409.00	USD 684.00	USD 1216.00	

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227108

Outside Diameter 0.21mm
 Inside Diameter 0.08mm

Wall Thickness 0.065mm
 Temper Hard



Size

Web Code
 381-935-547

Length	Quantity		
	10pcs	20pcs	50pcs
20 mm	USD 459.00	USD 662.00	USD 1196.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227100

Outside Diameter 0.25mm
 Inside Diameter 0.15mm

Wall Thickness 0.05mm
 Temper Hard



Size

Web Code
 493-113-342
 639-167-462
 895-933-856
 991-734-817

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 209.00	USD 240.00	USD 311.00	USD 406.00	USD 506.00
200 mm	USD 231.00	USD 271.00	USD 360.00	USD 475.00	USD 654.00
500 mm	USD 275.00	USD 333.00	USD 458.00	USD 721.00	
1000 mm	USD 324.00	USD 403.00	USD 675.00		

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227150

Outside Diameter 0.5mm
 Inside Diameter 0.25mm

Wall Thickness 0.125mm
 Temper Hard



Size

Web Code
 315-097-276
 387-161-844
 395-225-518
 403-199-623

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 201.00	USD 228.00	USD 293.00	USD 380.00	USD 469.00
200 mm	USD 219.00	USD 255.00	USD 334.00	USD 439.00	USD 553.00
500 mm	USD 256.00	USD 307.00	USD 417.00	USD 584.00	USD 960.00
1000 mm	USD 298.00	USD 366.00	USD 538.00	USD 930.00	

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227145

Outside Diameter 0.5mm
 Inside Diameter 0.28mm

Wall Thickness 0.11mm
 Temper Hard



Size

Web Code
 372-989-317
 623-671-499
 958-932-170
 866-520-740

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 203.00	USD 232.00	USD 298.00	USD 387.00	USD 479.00
200 mm	USD 222.00	USD 259.00	USD 341.00	USD 449.00	USD 572.00
500 mm	USD 261.00	USD 314.00	USD 428.00	USD 618.00	USD 1029.00
1000 mm	USD 305.00	USD 376.00	USD 573.00	USD 999.00	

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227140

Outside Diameter 0.5mm
 Inside Diameter 0.34mm

Wall Thickness 0.08mm
 Temper As drawn



Size

Web Code
 658-661-467
 332-675-731
 584-471-871
 058-983-924

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 205.00	USD 236.00	USD 305.00	USD 397.00	USD 495.00
200 mm	USD 227.00	USD 266.00	USD 354.00	USD 466.00	USD 637.00
500 mm	USD 270.00	USD 328.00	USD 450.00	USD 702.00	USD 1202.00
1000 mm	USD 319.00	USD 396.00	USD 658.00	USD 1173.00	

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

Alloy – Stainless Steel - AISI 304

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Tube

FE227130

Outside Diameter **0.5mm**
 Inside Diameter **0.38mm**

Wall Thickness **0.06mm**
 Temper **As drawn**



Size

Web Code
 436-302-319
 537-796-414
 224-554-135
 069-269-243

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 206.00	USD 237.00	USD 307.00	USD 399.00	USD 498.00
200 mm	USD 228.00	USD 268.00	USD 356.00	USD 469.00	USD 647.00
500 mm	USD 272.00	USD 330.00	USD 454.00	USD 714.00	
1000 mm	USD 321.00	USD 399.00	USD 671.00		

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227158

Outside Diameter **0.58mm**
 Inside Diameter **0.46mm**

Wall Thickness **0.06mm**
 Temper **Hard**



Size

Web Code
 426-901-682

Length	Quantity				
	10pcs	20pcs	50pcs	100pcs	200pcs
3.175 mm	USD 261.00	USD 308.00	USD 436.00	USD 637.00	USD 1022.00

FE227200

Outside Diameter **0.8mm**
 Inside Diameter **0.5mm**

Wall Thickness **0.15mm**
 Temper **Hard**



Size

Web Code
 733-697-830
 712-225-431
 028-183-910
 522-991-750

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 194.00	USD 219.00	USD 278.00	USD 359.00	USD 439.00
200 mm	USD 210.00	USD 241.00	USD 313.00	USD 409.00	USD 510.00
500 mm	USD 241.00	USD 286.00	USD 384.00	USD 509.00	USD 770.00
1000 mm	USD 277.00	USD 336.00	USD 463.00	USD 740.00	

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227180

Outside Diameter **0.8mm**
 Inside Diameter **0.5mm**

Wall Thickness **0.15mm**
 Temper **Annealed**



Size

Web Code
 399-953-081
 994-134-992
 266-862-996
 357-869-533

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 195.00	USD 220.00	USD 280.00	USD 362.00	USD 443.00
200 mm	USD 211.00	USD 243.00	USD 316.00	USD 413.00	USD 516.00
500 mm	USD 243.00	USD 289.00	USD 388.00	USD 515.00	USD 794.00
1000 mm	USD 280.00	USD 340.00	USD 470.00	USD 763.00	

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227185

Outside Diameter **0.85mm**
 Inside Diameter **0.065mm**

Wall Thickness **0.393mm**
 Temper **Hard**



Size

Web Code
 938-217-116

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
230 mm	USD 218.00	USD 253.00	USD 331.00	USD 445.00	USD 683.00

Typical Analysis : Not applicable

FE227201

Outside Diameter **0.9mm**
 Inside Diameter **0.6mm**

Wall Thickness **0.15mm**
 Temper **Hard**



Size

Web Code
 172-616-472

Length	Quantity				
	10pcs	20pcs	50pcs	100pcs	200pcs
35 mm	USD 307.00	USD 367.00	USD 515.00	USD 731.00	USD 1146.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227211

Outside Diameter **0.95mm**
 Inside Diameter **0.57mm**

Wall Thickness **0.19mm**
 Temper **Hard**



Size

Web Code
 672-111-314
 583-690-239
 891-839-533
 599-273-384

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 193.00	USD 218.00	USD 276.00	USD 356.00	USD 435.00
250 mm	USD 215.00	USD 248.00	USD 324.00	USD 424.00	
500 mm	USD 239.00	USD 283.00	USD 379.00		
1000 mm	USD 274.00	USD 332.00			

Typical Analysis : Not applicable

FE227250

Outside Diameter **1.1mm**
 Inside Diameter **0.7mm**

Wall Thickness **0.2mm**
 Temper **Hard**



Size

Web Code
 373-964-242
 745-533-183
 191-642-361
 955-297-522

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 186.00	USD 209.00	USD 264.00	USD 340.00	USD 415.00
200 mm	USD 201.00	USD 231.00	USD 298.00	USD 387.00	USD 482.00
500 mm	USD 231.00	USD 273.00	USD 365.00	USD 481.00	USD 702.00
1000 mm	USD 265.00	USD 320.00	USD 440.00	USD 674.00	

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

Alloy – Stainless Steel - AISI 304

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Tube

FE227251	Outside Diameter 1.1mm	Wall Thickness 0.2mm					
	Inside Diameter 0.7mm	Temper Hard					
Xn	Size	Quantity					
	Web Code	Length	10pcs	20pcs	50pcs	100pcs	
	197-515-200	5 mm	USD 250.00	USD 302.00	USD 419.00	USD 665.00	
Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.							
FE227300	Outside Diameter 1.47mm	Wall Thickness 0.185mm					
	Inside Diameter 1.1mm	Temper Hard					
Xn	Size	Quantity					
	Web Code	Length	1pc	2pcs	5pcs	10pcs	
	412-199-390	100 mm	USD 178.00	USD 200.00	USD 251.00	USD 320.00	
	524-916-182	200 mm	USD 192.00	USD 220.00	USD 282.00	USD 365.00	
	614-513-661	500 mm	USD 220.00	USD 259.00	USD 345.00	USD 453.00	
	814-210-177	1000 mm	USD 252.00	USD 304.00	USD 415.00	USD 553.00	
Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.							
FE227320	Outside Diameter 1.59mm	Wall Thickness 0.5mm					
	Inside Diameter 0.59mm	Temper Annealed					
Xn	Size	Quantity					
	Web Code	Length	1pc				
	979-443-401	94 mm	USD 175.00				
	318-493-088	100 mm	USD 176.00				
	213-401-347	500 mm	USD 215.00				
Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.							
FE227349	Outside Diameter 2.0mm	Wall Thickness 0.93mm					
	Inside Diameter 0.14mm	Temper Hard					
Xn	Size	Quantity					
	Web Code	Length	1pc	2pcs	5pcs		
	222-442-061	100 mm	USD 218.00	USD 257.00	USD 393.00		
	045-780-710	200 mm	USD 248.00	USD 322.00			
	776-075-918	500 mm	USD 354.00				
Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.							
FE227350	Outside Diameter 2.05mm	Wall Thickness 0.25mm					
	Inside Diameter 1.55mm	Temper Hard					
Xn	Size	Quantity					
	Web Code	Length	1pc	2pcs	5pcs	10pcs	
	776-274-813	100 mm	USD 178.00	USD 200.00	USD 254.00	USD 330.00	
	034-353-310	200 mm	USD 190.00	USD 217.00	USD 281.00	USD 369.00	
	294-171-482	500 mm	USD 214.00	USD 252.00	USD 336.00	USD 446.00	
	771-427-198	1000 mm	USD 242.00	USD 290.00	USD 397.00	USD 533.00	
Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.							
FE227400	Outside Diameter 2.34mm	Wall Thickness 0.32mm					
	Inside Diameter 1.7mm	Temper Hard					
Xn	Size	Quantity					
	Web Code	Length	1pc	2pcs	5pcs	10pcs	
	428-397-705	100 mm	USD 172.00	USD 191.00	USD 237.00	USD 301.00	
	549-715-453	200 mm	USD 184.00	USD 208.00	USD 263.00	USD 337.00	
	714-431-664	500 mm	USD 207.00	USD 240.00	USD 314.00	USD 410.00	
	303-959-656	1000 mm	USD 232.00	USD 277.00	USD 372.00	USD 546.00	
Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.							
FE227450	Outside Diameter 2.95mm	Wall Thickness 0.325mm					
	Inside Diameter 2.3mm	Temper Hard					
Xn	Size	Quantity					
	Web Code	Length	1pc	2pcs	5pcs	10pcs	
	994-961-319	100 mm	USD 164.00	USD 183.00	USD 230.00	USD 295.00	
	370-172-668	200 mm	USD 175.00	USD 199.00	USD 255.00	USD 331.00	
	271-586-878	500 mm	USD 198.00	USD 231.00	USD 306.00	USD 419.00	
	948-357-849	1000 mm	USD 223.00	USD 267.00	USD 379.00	USD 630.00	
Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.							
FE227539	Outside Diameter 3.94mm	Wall Thickness 0.26mm					
	Inside Diameter 3.42mm	Temper Hard					
Xn	Size	Quantity					
	Web Code	Length	1pc	2pcs	5pcs	10pcs	
	541-705-248	165.6 mm	USD 171.00	USD 194.00	USD 247.00	USD 319.00	
						USD 404.00	
						USD 743.00	

Alloy – Stainless Steel - AISI 304

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Tube

FE227600

Outside Diameter 5.0mm
 Inside Diameter 4mm

Wall Thickness 0.5mm
 Temper Annealed



Size

Web Code
 544-728-338
 091-041-619
 380-209-131
 526-145-252

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 168.00	USD 189.00	USD 239.00	USD 308.00	USD 387.00
200 mm	USD 181.00	USD 208.00	USD 268.00	USD 360.00	USD 539.00
500 mm	USD 207.00	USD 244.00	USD 359.00	USD 589.00	USD 997.00
1000 mm	USD 236.00	USD 297.00	USD 549.00	USD 970.00	

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227700

Outside Diameter 8.0mm
 Inside Diameter 7mm

Wall Thickness 0.5mm
 Temper Annealed



Size

Web Code
 768-159-519
 019-942-054
 492-755-353
 594-419-244

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 156.00	USD 176.00	USD 225.00	USD 294.00	USD 376.00
200 mm	USD 168.00	USD 193.00	USD 252.00	USD 331.00	USD 500.00
500 mm	USD 192.00	USD 227.00	USD 319.00	USD 519.00	USD 879.00
1000 mm	USD 219.00	USD 265.00	USD 477.00	USD 835.00	

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227710

Outside Diameter 9.0mm
 Inside Diameter 8mm

Wall Thickness 0.5mm
 Temper Hard



Size

Web Code
 302-411-124
 801-395-396
 174-415-026
 801-886-348

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 158.00	USD 179.00	USD 229.00	USD 300.00
200 mm	USD 171.00	USD 197.00	USD 258.00	USD 346.00
500 mm	USD 196.00	USD 233.00	USD 340.00	
1000 mm	USD 225.00	USD 279.00		

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227800

Outside Diameter 10.0mm
 Inside Diameter 6mm

Wall Thickness 2.0mm
 Temper Annealed



Size

Web Code
 235-792-975
 474-120-756
 265-099-895
 137-481-487

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 166.00	USD 196.00	USD 262.00	USD 351.00	USD 491.00
200 mm	USD 187.00	USD 225.00	USD 310.00	USD 449.00	
500 mm	USD 229.00	USD 285.00	USD 472.00		
1000 mm	USD 276.00	USD 383.00			

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

FE227850

Outside Diameter 15.0mm
 Inside Diameter 11mm

Wall Thickness 2.0mm
 Temper Annealed



Size

Web Code
 185-179-342
 147-416-363
 427-041-972
 380-244-563

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 175.00	USD 208.00	USD 283.00	USD 380.00	USD 592.00
200 mm	USD 200.00	USD 244.00	USD 338.00	USD 550.00	
500 mm	USD 249.00	USD 313.00			
1000 mm	USD 305.00	USD 483.00			

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.



Powder

FE226010

Max. Particle size 45micron



Web Code
 028-638-418
 579-809-864
 476-229-333
 528-671-545
 083-944-972

Weight	Quantity
	1 Pot
100 g	USD 173.00
200 g	USD 196.00
500 g	USD 241.00
1000 g	USD 293.00
2000 g	USD 370.00

Typical Analysis : Cr 17-20%, Mn <2%, Ni 8-11%, C <800, Fe balance.

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

Alloy – Stainless Steel - AISI 304

Stainless Steel - AISI 304

Fe/Cr18/Ni10



Sphere

FE226805

Diameter **0.5mm**
 Sphericity **2.50µm**
 Condition **Grade 100**

Tolerance **±12.7µm**
 Grade **Precision Sphere**



Xn

Quantity

Web Code
 196-747-152
 125-787-996
 687-630-229

Quantity

Spheres	1 Pot
50 pcs	USD 205.00
100 pcs	USD 279.00
200 pcs	USD 388.00

Typical Analysis : Not applicable

Alloy – Stainless Steel - AISI 304

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