

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 316L (Fe/Cr18/Ni10/Mo 3)

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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): $< 100\text{mm}$ $\pm 1\text{mm}$
 $\geq 100\text{mm}$ $+2\% / -1\%$



Microfoil

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

Tolerances

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



Microleaf

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

Tolerances

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



Monofilament

A single strand of a non-metallic material.

Tolerances

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



Non-Woven Fabric

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

Tolerances

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



Nut

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

Tolerances

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



Powder

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

Tolerances

Dimensions shown are nominal

Product Descriptions



Rod

A straight length of circular section material.

Tolerances

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



Sheet

Flat material with a thickness > 0.5mm.

Tolerances

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



Single Crystal

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

Tolerances

Orientation:	± 3°
Size:	Sizes shown are nominal



Sphere

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

Tolerances

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



Sputtering Target

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

Tolerances

Thickness:	± 0.5mm
Size:	± 0.5mm



Tube

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

Tolerances

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



Washer

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

Tolerances

Ceramics:	see item
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Product Descriptions



Wire

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

Tolerances

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

Hazards Information

HAZARDS

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

HAZARD SYMBOLS



C

Corrosive

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



D

Dangerous when wet

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



E

Explosive

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



F+

Extremely Flammable

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



Xn

Harmful

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



F

Highly flammable

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



Xi

Irritant

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



R

Radioactive

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



T

Toxic

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



T+

Very Toxic

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

General Information

Analyses

Typical Analysis :

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

Purity

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

High Purity

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

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

Supports

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

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

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

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

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

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

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

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

Vacuum tight

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

Continuous Lengths

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

Technical Data and Information

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

Tolerances

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

Order information

General Information

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

Prices

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

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

Transport Restriction

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

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

Delivery

Split shipment

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

Special Analysis, Supports or Tolerances

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

Cancellations

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

Express Service

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

Shipment

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

Despatch

Orders will normally be despatched within 48 hours of receipt.

Non delivery

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

Insurance

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

Export Restrictions

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

Materials Handling

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

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

Terms of payment

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

Order information

Credit account

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

Credit card payments

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

Mastercard, VISA, American Express, DELTA and Switch.

VAT

VAT number: GB 212 8527 79

UK

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

EU

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

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

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

Export

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

Return of goods

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

Claims

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

Goods ordered in error

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

Conditions of sale

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

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

Exclusions

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

Law

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

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

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

Order information

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

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

Company Details

Company Structure

The Goodfellow Group consists of five companies:

Goodfellow Cambridge Limited

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

Goodfellow Corporation

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

Goodfellow GmbH

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

Goodfellow SARL

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

Goodfellow (Shanghai) Trading Co., Ltd

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

COMPANY DETAILS

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A Pennsylvania corporation
EIN 23-2557381

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Goodfellow (Shanghai) Trading Co., Ltd

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SHANGHAI
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Conditions of Sale

1 GENERAL

1.1 In these Conditions:

1.1.1 the following expressions shall have the following meanings:-

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

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

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

2 ORDERS

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

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

3 DESCRIPTION

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

4 SPECIFICATIONS AND INTELLECTUAL PROPERTY

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

5 QUOTATIONS

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

6 PRICE

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

7 DELIVERY

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

Conditions of Sale

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

and/or

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

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

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

13 CONSUMER SALES

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

14 TITLE TO GOODS

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

15 RISK AND INSURANCE

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

16 EXPORT TERMS

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

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

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

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

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

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

17 BUYER'S WARRANTIES

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

18 SEVERANCE

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

19 JURISDICTION

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

20 NOTICES

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

21 WAIVER

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 316L

Fe/Cr18/Ni10/Mo 3

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 316 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. Molybdenum has been added to increase corrosion resistance particularly in chloride containing environments.

The lower carbon content of alloy 316L gives even better corrosion resistance in welded structures.



Foil

FF210230 Thickness 0.025mm

Temper Annealed

Size

Web Code

681-322-355
 571-458-111
 293-237-628
 090-275-037
 266-865-699

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 123.00	EUR 132.00	EUR 152.00	EUR 178.00	EUR 221.00
50 x 50 mm	EUR 140.00	EUR 155.00	EUR 189.00	EUR 229.00	EUR 294.00
100 x 100 mm	EUR 172.00	EUR 201.00	EUR 261.00	EUR 333.00	EUR 439.00
150 x 150 mm	EUR 205.00	EUR 248.00	EUR 334.00	EUR 436.00	
300 x 300 mm	EUR 303.00	EUR 386.00	EUR 553.00		

Coil

Web Code

369-114-718
 630-602-417
 612-147-342

Width 300mm

Length

1 Reel
 0.5 m EUR 394.00
 1 m EUR 499.00
 2 m EUR 684.00

Discs

Web Code

219-314-880
 026-237-998
 482-777-613
 990-971-051
 985-096-298
 938-122-275
 350-942-695

Diameter	Quantity			
	10 discs	20 discs	50 discs	100 discs
4 mm	EUR 224.00	EUR 254.00	EUR 327.00	EUR 444.00
6 mm	EUR 229.00	EUR 261.00	EUR 338.00	EUR 460.00
8 mm	EUR 234.00	EUR 268.00	EUR 349.00	EUR 476.00
10 mm	EUR 239.00	EUR 275.00	EUR 360.00	EUR 492.00
15 mm	EUR 251.00	EUR 292.00	EUR 388.00	EUR 531.00
25 mm	EUR 276.00	EUR 327.00	EUR 443.00	EUR 609.00
50 mm	EUR 338.00	EUR 415.00	EUR 583.00	EUR 807.00

FF210240 Thickness 0.03mm

Temper Annealed

Size

Web Code

160-323-276
 698-243-808
 540-931-469
 569-520-415

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 123.00	EUR 131.00	EUR 151.00	EUR 176.00	EUR 218.00
50 x 50 mm	EUR 139.00	EUR 154.00	EUR 186.00	EUR 226.00	EUR 289.00
100 x 100 mm	EUR 170.00	EUR 198.00	EUR 257.00	EUR 326.00	EUR 430.00
250 x 300 mm	EUR 280.00	EUR 354.00	EUR 502.00	EUR 760.00	

Coil

Web Code

773-820-308
 992-878-583
 117-737-409

Width 300mm

Length

1 Reel
 0.5 m EUR 386.00
 1 m EUR 487.00
 2 m EUR 649.00

Discs

Web Code

563-264-172
 313-454-554
 090-259-275
 773-025-261
 103-718-442
 243-250-399
 243-047-883

Diameter	Quantity			
	10 discs	20 discs	50 discs	100 discs
4 mm	EUR 224.00	EUR 253.00	EUR 326.00	EUR 443.00
6 mm	EUR 228.00	EUR 260.00	EUR 337.00	EUR 459.00
8 mm	EUR 233.00	EUR 267.00	EUR 348.00	EUR 474.00
10 mm	EUR 238.00	EUR 274.00	EUR 358.00	EUR 489.00
15 mm	EUR 250.00	EUR 291.00	EUR 385.00	EUR 527.00
25 mm	EUR 274.00	EUR 325.00	EUR 439.00	EUR 603.00
50 mm	EUR 334.00	EUR 410.00	EUR 574.00	EUR 794.00

FF210250 Thickness 0.05mm

Temper Annealed

Size

Web Code

512-761-915
 907-617-550
 671-635-192
 434-388-222
 702-994-562

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	EUR 104.00	EUR 112.00	EUR 132.00	EUR 164.00	EUR 203.00
50 x 50 mm	EUR 110.00	EUR 120.00	EUR 146.00	EUR 183.00	EUR 230.00
100 x 100 mm	EUR 122.00	EUR 137.00	EUR 173.00	EUR 221.00	EUR 284.00
150 x 150 mm	EUR 134.00	EUR 154.00	EUR 199.00	EUR 259.00	
300 x 300 mm	EUR 170.00	EUR 205.00	EUR 280.00		

Coil

Web Code

860-061-230
 349-559-497
 041-448-562

Width 315mm

Length

1 Reel
 0.5 m EUR 214.00
 1 m EUR 254.00
 2 m EUR 310.00

Discs

Web Code

302-097-451
 840-812-037
 853-363-205
 890-338-785
 855-879-799
 795-637-186
 775-024-164

Diameter	Quantity			
	10 discs	20 discs	50 discs	100 discs
4 mm	EUR 231.00	EUR 267.00	EUR 374.00	EUR 550.00
6 mm	EUR 233.00	EUR 270.00	EUR 378.00	EUR 555.00
8 mm	EUR 235.00	EUR 272.00	EUR 381.00	EUR 560.00
10 mm	EUR 236.00	EUR 275.00	EUR 385.00	EUR 566.00
15 mm	EUR 241.00	EUR 280.00	EUR 394.00	EUR 579.00
25 mm	EUR 249.00	EUR 292.00	EUR 413.00	EUR 605.00
50 mm	EUR 270.00	EUR 322.00	EUR 460.00	EUR 672.00

Alloy - Stainless Steel - AISI 316L

Stainless Steel - AISI 316L

Fe/Cr18/Ni10/Mo 3



Foil

FF210275

Thickness 0.075mm

Temper Annealed

Size

Web Code

935-935-047
 040-526-307
 018-497-101
 895-391-389
 798-196-558

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

		Quantity							
		1pc	2pcs	5pcs	10pcs	20pcs			
EUR	105.00	EUR	113.00	EUR	134.00	EUR	166.00	EUR	206.00
EUR	111.00	EUR	122.00	EUR	148.00	EUR	187.00	EUR	235.00
EUR	124.00	EUR	140.00	EUR	178.00	EUR	228.00	EUR	294.00
EUR	137.00	EUR	159.00	EUR	207.00	EUR	270.00		
EUR	177.00	EUR	215.00	EUR	295.00				

Coil

Web Code

811-364-365
 709-474-346
 106-257-120

Width 305mm

Length
 0.5 m
 1 m
 2 m

Quantity

		1 Reel
EUR	222.00	
EUR	264.00	
EUR	325.00	

Discs

Web Code

083-753-287
 607-926-774
 438-404-697
 637-826-799
 427-281-159
 481-851-410
 023-111-428

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

		Quantity					
		10 discs	20 discs	50 discs	100 discs		
EUR	232.00	EUR	268.00	EUR	375.00	EUR	551.00
EUR	234.00	EUR	270.00	EUR	379.00	EUR	556.00
EUR	235.00	EUR	273.00	EUR	383.00	EUR	562.00
EUR	237.00	EUR	276.00	EUR	387.00	EUR	568.00
EUR	242.00	EUR	282.00	EUR	397.00	EUR	583.00
EUR	251.00	EUR	295.00	EUR	417.00	EUR	612.00
EUR	274.00	EUR	327.00	EUR	469.00	EUR	684.00

FF210280

Thickness 0.1mm

Temper Annealed

Size

Web Code

994-470-254
 441-315-197
 333-285-827
 848-657-420
 709-146-528

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

		Quantity							
		1pc	2pcs	5pcs	10pcs	20pcs			
EUR	106.00	EUR	114.00	EUR	136.00	EUR	169.00	EUR	210.00
EUR	113.00	EUR	125.00	EUR	153.00	EUR	193.00	EUR	244.00
EUR	128.00	EUR	146.00	EUR	187.00	EUR	241.00	EUR	312.00
EUR	143.00	EUR	168.00	EUR	221.00	EUR	289.00		
EUR	189.00	EUR	232.00	EUR	322.00				

Coil

Web Code

819-862-602
 687-458-539
 851-568-702

Width 305mm

Length
 0.5 m
 1 m
 2 m

Quantity

		1 Reel
EUR	237.00	
EUR	287.00	
EUR	387.00	

Discs

Web Code

863-370-299
 286-688-089
 905-102-522
 008-500-816
 305-243-308
 509-622-593
 254-061-421

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

		Quantity					
		10 discs	20 discs	50 discs	100 discs		
EUR	232.00	EUR	269.00	EUR	376.00	EUR	552.00
EUR	234.00	EUR	272.00	EUR	381.00	EUR	559.00
EUR	237.00	EUR	275.00	EUR	385.00	EUR	566.00
EUR	239.00	EUR	278.00	EUR	390.00	EUR	573.00
EUR	244.00	EUR	285.00	EUR	402.00	EUR	589.00
EUR	255.00	EUR	300.00	EUR	425.00	EUR	623.00
EUR	281.00	EUR	337.00	EUR	485.00	EUR	707.00

FF210301

Thickness 0.15mm

Temper Annealed

Condition Flattened



Xn

Size

Web Code

596-315-764
 300-829-684
 172-538-284

Size
 100 x 100 mm
 250 x 300 mm
 300 x 500 mm

		Quantity					
		1pc	2pcs	5pcs	10pcs		
EUR	138.00	EUR	160.00	EUR	209.00	EUR	272.00
EUR	208.00	EUR	258.00	EUR	406.00	EUR	719.00
EUR	253.00	EUR	333.00	EUR	693.00		

FF210321

Thickness 0.2mm

Coil width 12mm

Temper Annealed



Xn

Coil

Web Code

181-950-827
 308-217-343
 312-470-419
 509-991-473
 587-694-438

Width 12mm

Length
 0.5 m
 1 m
 2 m
 5 m
 10 m

Quantity

		1 Reel
EUR	123.00	
EUR	135.00	
EUR	153.00	
EUR	190.00	
EUR	236.00	

Alloy – Stainless Steel - AISI 316L

Stainless Steel - AISI 316L

Fe/Cr18/Ni10/Mo 3



Foil

FF210320

Thickness 0.2mm

Temper Annealed



Size

Web Code

806-235-482
 779-431-908
 428-995-637
 624-459-664
 057-458-650

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

EUR 106.00	EUR 115.00	EUR 137.00	EUR 171.00	EUR 213.00
EUR 114.00	EUR 126.00	EUR 156.00	EUR 197.00	EUR 250.00
EUR 131.00	EUR 150.00	EUR 192.00	EUR 249.00	EUR 323.00
EUR 147.00	EUR 173.00	EUR 229.00	EUR 300.00	
EUR 196.00	EUR 242.00	EUR 349.00		

Coil

Web Code

182-329-056
 791-129-651
 891-201-789

Width 305mm

Length

0.5 m
 1 m
 2 m

Quantity

1 Reel

EUR 247.00	EUR 300.00	EUR 432.00
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Discs

Web Code

400-218-494
 027-304-844
 413-110-551
 638-820-527
 852-571-535
 571-438-193
 429-765-694

Diameter

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

Quantity

EUR 233.00	EUR 269.00	EUR 377.00	EUR 554.00
EUR 235.00	EUR 272.00	EUR 382.00	EUR 561.00
EUR 237.00	EUR 276.00	EUR 387.00	EUR 568.00
EUR 240.00	EUR 279.00	EUR 392.00	EUR 575.00
EUR 245.00	EUR 287.00	EUR 405.00	EUR 593.00
EUR 257.00	EUR 303.00	EUR 430.00	EUR 630.00
EUR 285.00	EUR 344.00	EUR 494.00	EUR 721.00

FF210331

Thickness 0.25mm
 Temper Annealed

Coil width 12mm



Coil

Web Code

773-557-153
 390-028-910
 867-839-016
 830-045-440
 099-363-117

Width 12mm

Length

0.5 m
 1 m
 2 m
 5 m
 10 m

Quantity

1 Reel

EUR 126.00	EUR 139.00	EUR 158.00	EUR 199.00	EUR 249.00
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FF210330

Thickness 0.25mm

Temper Annealed



Size

Web Code

452-270-994
 334-806-153
 670-818-333
 200-733-830
 676-318-894

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

EUR 107.00	EUR 116.00	EUR 139.00	EUR 174.00	EUR 217.00
EUR 116.00	EUR 129.00	EUR 160.00	EUR 203.00	EUR 258.00
EUR 135.00	EUR 155.00	EUR 201.00	EUR 261.00	EUR 340.00
EUR 153.00	EUR 181.00	EUR 242.00	EUR 319.00	
EUR 208.00	EUR 258.00	EUR 392.00		

Coil

Web Code

784-747-301
 542-687-135
 941-723-178

Width 305mm

Length

0.5 m
 1 m
 2 m

Quantity

1 Reel

EUR 262.00	EUR 321.00	EUR 490.00
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Discs

Web Code

800-336-663
 406-931-704
 443-173-028
 478-906-261
 528-207-379
 645-401-224
 407-144-999

Diameter

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

Quantity

EUR 233.00	EUR 270.00	EUR 378.00	EUR 555.00
EUR 236.00	EUR 274.00	EUR 383.00	EUR 563.00
EUR 238.00	EUR 277.00	EUR 389.00	EUR 571.00
EUR 241.00	EUR 281.00	EUR 395.00	EUR 580.00
EUR 247.00	EUR 290.00	EUR 409.00	EUR 600.00
EUR 260.00	EUR 308.00	EUR 438.00	EUR 640.00
EUR 292.00	EUR 353.00	EUR 510.00	EUR 742.00

FF210335

Thickness 0.30mm

Temper Annealed



Size

Web Code

410-769-967
 633-206-665
 121-677-263
 414-235-985
 330-340-697

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

EUR 108.00	EUR 117.00	EUR 141.00	EUR 177.00	EUR 221.00
EUR 118.00	EUR 132.00	EUR 164.00	EUR 209.00	EUR 266.00
EUR 138.00	EUR 160.00	EUR 209.00	EUR 272.00	EUR 356.00
EUR 158.00	EUR 188.00	EUR 253.00	EUR 335.00	
EUR 218.00	EUR 273.00	EUR 400.00		

Coil

Web Code

102-062-341
 965-025-291
 397-448-725

Width 305mm

Length

0.5 m
 1 m
 2 m

Quantity

1 Reel

EUR 276.00	EUR 341.00	EUR 500.00
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Discs

Web Code

186-836-808
 894-021-041
 250-615-768
 180-571-798
 484-242-040
 124-646-581
 011-817-428

Diameter

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

Quantity

EUR 234.00	EUR 271.00	EUR 379.00	EUR 557.00
EUR 237.00	EUR 275.00	EUR 385.00	EUR 566.00
EUR 239.00	EUR 279.00	EUR 391.00	EUR 575.00
EUR 242.00	EUR 282.00	EUR 398.00	EUR 583.00
EUR 249.00	EUR 292.00	EUR 413.00	EUR 606.00
EUR 263.00	EUR 312.00	EUR 445.00	EUR 650.00
EUR 298.00	EUR 362.00	EUR 523.00	EUR 762.00

Alloy - Stainless Steel - AISI 316L

Stainless Steel - AISI 316L

Fe/Cr18/Ni10/Mo 3



Foil

FF210340

Thickness **0.38mm**

Temper **Annealed**



Size

Web Code

473-066-515
 275-538-337
 450-868-454
 877-371-585
 927-537-697

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

		Quantity							
		1pc	2pcs	5pcs	10pcs	20pcs			
EUR	109.00	EUR	119.00	EUR	144.00	EUR	181.00	EUR	227.00
EUR	121.00	EUR	135.00	EUR	169.00	EUR	216.00	EUR	277.00
EUR	143.00	EUR	167.00	EUR	220.00	EUR	288.00	EUR	378.00
EUR	166.00	EUR	199.00	EUR	270.00	EUR	359.00		
EUR	233.00	EUR	295.00	EUR	474.00				

Coil

Web Code

958-309-590
 671-626-087
 081-150-490

Width 305mm
Length
 0.5 m
 1 m
 2 m

Quantity

	1 Reel
EUR	295.00
EUR	368.00
EUR	602.00

Discs

Web Code

238-089-339
 012-264-505
 575-561-104
 914-579-506
 820-465-051
 560-674-978
 874-150-162

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

		Quantity					
		10 discs	20 discs	50 discs	100 discs		
EUR	234.00	EUR	272.00	EUR	380.00	EUR	559.00
EUR	238.00	EUR	276.00	EUR	387.00	EUR	569.00
EUR	241.00	EUR	281.00	EUR	395.00	EUR	579.00
EUR	244.00	EUR	285.00	EUR	402.00	EUR	589.00
EUR	252.00	EUR	296.00	EUR	419.00	EUR	614.00
EUR	267.00	EUR	318.00	EUR	454.00	EUR	664.00
EUR	307.00	EUR	374.00	EUR	543.00	EUR	790.00

FF210351

Thickness **0.5mm**
 Condition..... **Polished on both sides**

Temper **Annealed**



Size

Web Code

100-032-394
 969-392-532
 929-919-872
 986-293-526
 274-069-978

Size
 50 x 50 mm
 100 x 100 mm
 150 x 250 mm
 250 x 300 mm
 300 x 500 mm

		Quantity					
		1pc	2pcs	5pcs	10pcs		
EUR	112.00	EUR	126.00	EUR	159.00	EUR	203.00
EUR	135.00	EUR	159.00	EUR	211.00	EUR	279.00
EUR	178.00	EUR	220.00	EUR	386.00		
EUR	216.00	EUR	316.00				
EUR	312.00						

FF210352

Thickness **0.5mm**
 Condition..... **Flattened**

Temper **Annealed**



Size

Web Code

775-738-072
 832-698-176

Size
 250 x 300 mm
 300 x 500 mm

		Quantity	
		1pc	2pcs
EUR	185.00	EUR	230.00
EUR	225.00	EUR	286.00

FF210350

Thickness **0.5mm**

Temper **Annealed**



Size

Web Code

403-168-800
 582-435-969

Size
 150 x 150 mm
 300 x 300 mm

		Quantity					
		1pc	2pcs	5pcs	10pcs		
EUR	137.00	EUR	162.00	EUR	215.00	EUR	283.00
EUR	185.00	EUR	230.00	EUR	323.00		

FF210375

Thickness **0.9mm**
 Condition..... **Mirror polished on one side**

Temper **Annealed**



Size

Web Code

191-925-850
 344-886-363

Size
 90 x 210 mm
 200 x 200 mm

		Quantity			
		1pc	2pcs	5pcs	
EUR	129.00	EUR	159.00	EUR	227.00
EUR	152.00	EUR	191.00		

FF210376

Thickness **0.9mm**
 Condition..... **Mirror polished on both sides**

Temper **Annealed**



Size

Web Code

835-065-295
 430-613-521
 059-179-783

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

		Quantity							
		1pc	2pcs	5pcs	10pcs	20pcs			
EUR	92.50	EUR	110.00	EUR	157.00	EUR	210.00	EUR	311.00
EUR	102.00	EUR	123.00	EUR	178.00	EUR	239.00	EUR	351.00
EUR	120.00	EUR	148.00	EUR	218.00	EUR	296.00		

FF210385

Thickness **1.2mm**
 Condition..... **Mirror polished on both sides**

Temper **Annealed**



Size

Web Code

004-879-978
 581-925-220
 167-837-680
 903-657-001

Size
 25 x 25 mm
 50 x 50 mm
 100 x 100 mm
 200 x 200 mm

		Quantity							
		1pc	2pcs	3pcs	5pcs	10pcs			
EUR	117.00	EUR	131.00	EUR	144.00	EUR	170.00	EUR	191.00
EUR	125.00	EUR	143.00	EUR	159.00				
EUR	142.00	EUR	182.00						
EUR	234.00								

FF210400

Thickness **2.0mm**

Temper **Annealed**



Size

Web Code

482-368-564
 840-588-146

Size
 150 x 150 mm
 300 x 300 mm

		Quantity	
		1pc	2pcs
EUR	165.00	EUR	197.00
EUR	231.00		

Alloy – Stainless Steel - AISI 316L

Stainless Steel - AISI 316L

Fe/Cr18/Ni10/Mo 3



Foil

FF210401 Thickness **2.0mm** Temper **Annealed**
 Condition..... **Mirror polished on both sides**



Size	Quantity		
Web Code 981-085-129	1pc	2pcs	5pcs
100 x 100 mm	EUR 151.00	EUR 179.00	EUR 238.00

FF210450 Thickness **3.0mm**



Size	Quantity		
Web Code 115-339-139 912-249-071 080-061-837	1pc	2pcs	5pcs
100 x 100 mm	EUR 156.00	EUR 185.00	EUR 247.00
250 x 250 mm	EUR 251.00	EUR 319.00	
500 x 500 mm	EUR 409.00		

FF210460 Thickness **4.0mm**



Size	Quantity			
Web Code 158-166-074 707-657-799	1pc	2pcs	3pcs	5pcs
150 x 150 mm	EUR 219.00	EUR 274.00	EUR 318.00	EUR 462.00
300 x 300 mm	EUR 373.00	EUR 653.00	EUR 933.00	EUR 1493.00

FF210480 Thickness **5.0mm**



Size	Quantity		
Web Code 928-802-651 182-318-811 972-069-256	1pc	2pcs	5pcs
100 x 100 mm	EUR 180.00	EUR 220.00	EUR 303.00
150 x 150 mm	EUR 221.00	EUR 278.00	
300 x 300 mm	EUR 389.00		

Typical Analysis : Not applicable

FF210800 Thickness **8.0mm** Temper **Annealed**



Size	Quantity	
Web Code 559-409-575 406-637-068	1pc	2pcs
100 x 100 mm	EUR 182.00	EUR 222.00
205 x 205 mm	EUR 270.00	

FF210801 Thickness **8.0mm** Temper **Annealed**



Size	Quantity
Web Code 167-144-925	1pc
500 x 500 mm	POA



Non-Woven Fabric

FF213720 Weight.m⁻² **50g** Thickness **0.060mm**

Size	Quantity		
Web Code 862-686-069 041-895-858 960-002-417	1pc	2pcs	5pcs
150 x 150 mm	EUR 182.00	EUR 204.00	EUR 277.00
300 x 300 mm	EUR 246.00	EUR 362.00	EUR 711.00
560 x 560 mm	EUR 533.00	EUR 937.00	EUR 2148.00



Mesh

FF218702 Nominal Aperture..... **0.01mm** Wires/inch..... **325x2300**
 Weave..... **Twill Dutch**



Size	Quantity			
Web Code 572-186-541 625-607-624 658-872-399 872-493-031	1pc	2pcs	5pcs	10pcs
100 x 100 mm	EUR 311.00	EUR 386.00	EUR 557.00	EUR 972.00
150 x 150 mm	EUR 399.00	EUR 511.00	EUR 1071.00	EUR 2002.00
300 x 300 mm	EUR 875.00	EUR 1619.00	EUR 3851.00	
600 x 600 mm	EUR 3099.00	EUR 6067.00		

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 316L

Stainless Steel - AISI 316L

Fe/Cr18/Ni10/Mo 3



Wire

FF215105	Diameter	0.025mm	Temper					Annealed
	Length		Quantity					
Xn	Web Code		Length	1 Reel				
	278-458-717		10 m	EUR 114.00				
	934-571-879		50 m	EUR 146.00				
	970-805-090		100 m	EUR 174.00				
	210-916-108		200 m	EUR 221.00				
	033-994-647		500 m	EUR 333.00				
	368-780-353		1000 m	EUR 492.00				
FF215110	Diameter	0.10mm	Temper					Hard
	Length		Quantity					
Xn	Web Code		Length	1 Reel				
	459-006-151		10 m	EUR 81.50				
	440-995-906		50 m	EUR 126.00				
	953-670-005		100 m	EUR 163.00				
	881-189-945		200 m	EUR 221.00				
	492-126-821		500 m	EUR 342.00				
FF215120	Diameter	0.20mm	Temper					As drawn
	Length		Quantity					
Xn	Web Code		Length	1 Reel				
	031-891-910		10 m	EUR 79.00				
	240-908-143		50 m	EUR 120.00				
	648-606-775		100 m	EUR 155.00				
	346-645-865		200 m	EUR 209.00				
	737-907-365		500 m	EUR 297.00				
FF215307	Diameter	0.25mm	Condition.					Straight wire
	Temper	Annealed	Quantity					
Xn	Size		1pc	2pcs	5pcs	10pcs	20pcs	
	Web Code	Length						
			0.3907g #1000 mm#					
FF215125	Diameter	0.25mm	Temper					As drawn
	Length		Quantity					
Xn	Web Code		Length	1 Reel				
	925-452-416		10 m	EUR 82.00				
	091-610-076		50 m	EUR 127.00				
	166-980-338		100 m	EUR 165.00				
	116-459-403		200 m	EUR 223.00				
	762-101-743		500 m	EUR 349.00				
FF215310	Diameter	0.3mm	Condition.					Straight wire
	Temper	Annealed	Quantity					
Xn	Size		1pc	2pcs	5pcs	10pcs	20pcs	
	Web Code	Length						
			0.5626g #1000 mm#					
FF215130	Diameter	0.3mm	Temper					As drawn
	Length		Quantity					
Xn	Web Code		Length	1 Reel				
	649-114-270		10 m	EUR 85.50				
	390-067-947		50 m	EUR 135.00				
	106-221-575		100 m	EUR 176.00				
	422-819-069		200 m	EUR 239.00				
	345-293-516		500 m	EUR 414.00				
FF215135	Diameter	0.4mm	Temper					As drawn
	Length		Quantity					
Xn	Web Code		Length	1 Reel				
	792-350-847		10 m	EUR 91.00				
	793-945-743		50 m	EUR 147.00				
	604-559-547		100 m	EUR 193.00				
	470-216-115		200 m	EUR 263.00				
	371-642-255		500 m	EUR 522.00				
FF215313	Diameter	0.5mm	Condition.					Straight wire
	Temper	Annealed	Quantity					
Xn	Size		1pc	2pcs	5pcs	10pcs	20pcs	
	Web Code	Length						
			1.6g #1000 mm#					

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		Wire							
FF215314	Diameter 0.5mm Temper Hard			Condition Straight wire					
<input checked="" type="checkbox"/>	Size			Quantity					
Xn	Web Code	Length	1pc	2pcs	5pcs	10pcs	20pcs		
					1.6g	#1000 mm#			
FF215140	Diameter 0.5mm			Temper As drawn					
<input checked="" type="checkbox"/>	Length			Quantity					
Xn	Web Code	Length	1 Reel						
	595-577-978	10 m	EUR 96.00						
	784-527-705	50 m	EUR 158.00						
	502-603-280	100 m	EUR 209.00						
	454-847-808	200 m	EUR 305.00						
	263-414-664	500 m	EUR 637.00						
FF215145	Diameter 0.6mm			Temper As drawn					
<input checked="" type="checkbox"/>	Length			Quantity					
Xn	Web Code	Length	1 Reel						
	489-605-242	10 m	EUR 100.00						
	218-292-483	20 m	EUR 122.00						
	687-851-832	50 m	EUR 168.00						
	691-136-847	100 m	EUR 222.00						
	578-252-109	200 m	EUR 349.00						
FF215148	Diameter 0.7mm			Temper As drawn					
<input checked="" type="checkbox"/>	Length			Quantity					
Xn	Web Code	Length	1 Reel						
	168-368-573	10 m	EUR 108.00						
	309-540-345	20 m	EUR 134.00						
	613-957-456	50 m	EUR 186.00						
	152-337-120	100 m	EUR 248.00						
	692-829-626	200 m	EUR 443.00						
FF215315	Diameter 0.8mm Temper Annealed			Condition Straight wire					
<input checked="" type="checkbox"/>	Size			Quantity					
Xn	Web Code	Length	1pc	2pcs	5pcs	10pcs	20pcs		
					4.0g	#1000 mm#			
FF215152	Diameter 0.8mm			Temper As drawn					
<input checked="" type="checkbox"/>	Length			Quantity					
Xn	Web Code	Length	1 Reel						
	440-251-842	5 m	EUR 96.00						
	900-350-748	10 m	EUR 116.00						
	984-581-164	20 m	EUR 145.00						
	094-212-081	50 m	EUR 203.00						
	630-254-555	100 m	EUR 298.00						
FF215156	Diameter 0.9mm			Temper As drawn					
<input checked="" type="checkbox"/>	Length			Quantity					
Xn	Web Code	Length	1 Reel						
	911-684-656	5 m	EUR 102.00						
	165-385-198	10 m	EUR 124.00						
	028-325-114	20 m	EUR 155.00						
	675-660-998	50 m	EUR 220.00						
	834-929-617	100 m	EUR 356.00						
FF215317	Diameter 1.0mm Temper Annealed			Condition Straight wire					
<input checked="" type="checkbox"/>	Size			Quantity					
Xn	Web Code	Length	1pc	2pcs	5pcs	10pcs	20pcs		
					6.3g	#1000 mm#			
FF215160	Diameter 1.0mm			Temper As drawn					
<input checked="" type="checkbox"/>	Length			Quantity					
Xn	Web Code	Length	1 Reel						
	396-745-603	5 m	EUR 107.00						
	411-472-218	10 m	EUR 131.00						
	743-628-229	20 m	EUR 166.00						
	426-766-454	50 m	EUR 237.00						
	978-940-411	100 m	EUR 419.00						
FF215320	Diameter 1.5mm Temper Annealed			Condition Straight wire					
<input checked="" type="checkbox"/>	Size			Quantity					
Xn	Web Code	Length	1pc	2pcs	5pcs	10pcs	20pcs		
					14.1g	#1000 mm#			

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Wire

FF215330

Diameter 2.0mm
 Temper Annealed

Condition Straight wire



Size

Web Code

Length

Quantity

1pc	2pcs	5pcs	10pcs
		25.0g	#1000 mm#



Rod

FF217905

Diameter 3.175mm



Size

Web Code

730-449-412
 177-324-269
 620-033-602
 323-536-353

Length	1pc	2pcs	5pcs	10pcs
100 mm	EUR 97.50	EUR 113.00	EUR 154.00	EUR 179.00
200 mm	EUR 104.00	EUR 122.00	EUR 168.00	EUR 200.00
500 mm	EUR 117.00	EUR 140.00		
1000 mm	EUR 131.00	EUR 161.00		

FF217906

Diameter 4.0mm



Size

Web Code

362-265-931
 248-032-980
 626-084-390
 539-265-998

Length	1pc	2pcs	5pcs	10pcs
100 mm	EUR 98.00	EUR 115.00	EUR 158.00	EUR 187.00
200 mm	EUR 106.00	EUR 126.00	EUR 175.00	EUR 211.00
500 mm	EUR 121.00	EUR 147.00		
1000 mm	EUR 138.00	EUR 172.00		

Typical Analysis : Not applicable

FF217908

Diameter 5.0mm



Size

Web Code

099-491-790
 156-678-476
 603-927-072
 842-166-415

Length	1pc	2pcs	5pcs	10pcs
100 mm	EUR 100.00	EUR 117.00	EUR 159.00	EUR 187.00
200 mm	EUR 107.00	EUR 127.00	EUR 176.00	EUR 210.00
500 mm	EUR 122.00	EUR 148.00		
1000 mm	EUR 139.00	EUR 171.00		

FF217910

Diameter 6.0mm



Size

Web Code

847-149-691
 039-958-158
 585-800-512
 031-102-853

Length	1pc	2pcs	5pcs	10pcs
100 mm	EUR 101.00	EUR 118.00	EUR 161.00	EUR 190.00
200 mm	EUR 109.00	EUR 129.00	EUR 178.00	EUR 216.00
500 mm	EUR 124.00	EUR 151.00		
1000 mm	EUR 142.00	EUR 177.00		

FF217915

Diameter 8.0mm



Size

Web Code

942-706-086
 418-443-489
 755-048-540
 171-693-859

Length	1pc	2pcs	5pcs	10pcs
100 mm	EUR 102.00	EUR 120.00	EUR 164.00	EUR 194.00
200 mm	EUR 110.00	EUR 131.00	EUR 182.00	EUR 227.00
500 mm	EUR 127.00	EUR 155.00	EUR 240.00	
1000 mm	EUR 145.00	EUR 188.00		

FF217920

Diameter 12.7mm



Size

Web Code

990-366-581
 615-720-560
 149-956-378
 958-705-590

Length	1pc	2pcs	5pcs	10pcs
100 mm	EUR 103.00	EUR 121.00	EUR 166.00	EUR 196.00
200 mm	EUR 112.00	EUR 133.00	EUR 185.00	EUR 235.00
500 mm	EUR 129.00	EUR 157.00	EUR 250.00	
1000 mm	EUR 148.00	EUR 196.00		

FF217922

Diameter 16mm



Size

Web Code

801-524-001
 772-770-337
 668-247-588
 048-390-377

Length	1pc	2pcs	5pcs	10pcs
100 mm	EUR 104.00	EUR 122.00	EUR 168.00	EUR 200.00
200 mm	EUR 113.00	EUR 135.00	EUR 188.00	EUR 246.00
500 mm	EUR 131.00	EUR 161.00		
1000 mm	EUR 151.00	EUR 207.00		

FF217925

Diameter 20mm



Size

Web Code

905-278-907
 508-298-912
 497-151-185
 289-677-549

Length	1pc	2pcs	5pcs	10pcs
100 mm	EUR 107.00	EUR 126.00	EUR 174.00	EUR 208.00
200 mm	EUR 117.00	EUR 140.00	EUR 196.00	EUR 275.00
500 mm	EUR 137.00	EUR 169.00	EUR 300.00	
1000 mm	EUR 160.00	EUR 236.00		

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Rod

FF217930

Diameter 25.4mm



Size

Web Code
 330-439-682
 251-588-761
 732-505-351
 520-370-292

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	EUR 113.00	EUR 135.00	EUR 187.00
200 mm	EUR 125.00	EUR 152.00	EUR 232.00
500 mm	EUR 150.00	EUR 204.00	
1000 mm	EUR 195.00		

FF217935

Diameter 38.1mm



Size

Web Code
 306-200-129
 646-786-966
 074-921-584
 448-880-794

Length	Quantity		
	1pc	2pcs	5pcs
100 mm	EUR 128.00	EUR 156.00	EUR 244.00
200 mm	EUR 146.00	EUR 191.00	EUR 368.00
500 mm	EUR 207.00	EUR 341.00	
1000 mm	EUR 331.00		

FF217940

Diameter 50.8mm



Size

Web Code
 148-367-322
 413-900-301
 491-633-401
 175-291-613

Length	Quantity		
	1pc	2pcs	5pcs
50 mm	EUR 125.00	EUR 152.00	EUR 231.00
100 mm	EUR 143.00	EUR 181.00	EUR 342.00
200 mm	EUR 171.00	EUR 270.00	
500 mm	EUR 305.00		



Tube

FF217190

Outside Diameter 1.00mm
 Inside Diameter 0.9mm

Wall Thickness 0.05mm
 Temper Hard



Size

Web Code
 987-625-073
 108-210-575
 427-811-364

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
200 mm	EUR 126.00	EUR 161.00	EUR 234.00	EUR 324.00
500 mm	EUR 168.00	EUR 220.00		
1000 mm	EUR 216.00	EUR 287.00		

FF217201

Outside Diameter 1.65mm
 Inside Diameter 1.2mm

Wall Thickness 0.225mm
 Temper Hard



Size

Web Code
 991-239-587

Length	Quantity			
	5pcs	10pcs	20pcs	50pcs
100 mm	EUR 178.00	EUR 244.00	EUR 352.00	EUR 524.00

FF217199

Outside Diameter 1.65mm
 Inside Diameter 1.39mm

Wall Thickness 0.13mm
 Temper Hard



Size

Web Code
 799-749-058
 639-774-399
 672-428-439

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
200 mm	EUR 119.00	EUR 151.00	EUR 218.00	EUR 301.00
500 mm	EUR 157.00	EUR 204.00		
1000 mm	EUR 199.00	EUR 264.00		

FF217200

Outside Diameter 1.65mm
 Inside Diameter 1.39mm

Wall Thickness 0.13mm
 Temper Hard



Size

Web Code
 135-709-720

Length	Quantity			
	5pcs	10pcs	20pcs	50pcs
100 mm	EUR 175.00	EUR 241.00	EUR 347.00	EUR 516.00

FF217300

Outside Diameter 2.1mm
 Inside Diameter 1.6mm

Wall Thickness 0.25mm
 Temper Annealed



Size

Web Code
 424-032-056
 948-110-924
 104-803-061
 592-188-816

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	EUR 125.00	EUR 159.00	EUR 231.00	EUR 319.00
200 mm	EUR 154.00	EUR 200.00	EUR 296.00	EUR 412.00
500 mm	EUR 212.00	EUR 283.00		
1000 mm	EUR 278.00	EUR 375.00		

FF217301

Outside Diameter 2.1mm
 Inside Diameter 1.6mm

Wall Thickness 0.25mm
 Temper Annealed



Size

Web Code
 140-575-796

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
150 mm	EUR 141.00	EUR 181.00	EUR 266.00	EUR 370.00

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Tube

FF217401

Outside Diameter..... 4.0mm
 Inside Diameter..... 2.9mm

Wall Thickness..... 0.55mm
 Temper..... Annealed



Size

Web Code
 474-686-506
 587-259-957
 994-211-624
 384-798-219

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	EUR 92.00	EUR 115.00	EUR 155.00	EUR 203.00
200 mm	EUR 110.00	EUR 140.00	EUR 194.00	EUR 258.00
500 mm	EUR 144.00	EUR 189.00		
1000 mm	EUR 183.00	EUR 244.00		

FF217420

Outside Diameter..... 4.2mm
 Inside Diameter..... 3.8mm

Wall Thickness..... 0.2mm
 Temper..... Annealed



Size

Web Code
 658-293-589
 868-752-393
 407-136-125
 776-528-498

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	EUR 90.00	EUR 112.00	EUR 150.00	EUR 196.00
200 mm	EUR 106.00	EUR 135.00	EUR 187.00	EUR 249.00
500 mm	EUR 139.00	EUR 182.00		
1000 mm	EUR 177.00	EUR 234.00		

FF217430

Outside Diameter..... 5.5mm
 Inside Diameter..... 5.02mm
 Rugosity..... <1.0um Ra Internal & External

Wall Thickness..... 0.24mm
 Temper..... Hard



Size

Web Code

Length	Quantity		
	1pc	2pcs	5pcs

FF217450

Outside Diameter..... 6.0mm
 Inside Diameter..... 4mm

Wall Thickness..... 1.0mm
 Temper..... Annealed



Size

Web Code
 516-102-839
 666-578-194
 689-970-097
 053-326-980

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	EUR 92.00	EUR 115.00	EUR 155.00	EUR 203.00
200 mm	EUR 110.00	EUR 140.00	EUR 194.00	EUR 258.00
500 mm	EUR 144.00	EUR 189.00		
1000 mm	EUR 183.00	EUR 244.00		

FF217650

Outside Diameter..... 9.5mm
 Inside Diameter..... 8.5mm

Wall Thickness..... 0.5mm



Size

Web Code
 483-798-768
 026-537-035
 773-325-524
 226-967-131

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	EUR 96.00	EUR 121.00	EUR 164.00	EUR 216.00
200 mm	EUR 115.00	EUR 148.00	EUR 207.00	EUR 293.00
500 mm	EUR 153.00	EUR 201.00		
1000 mm	EUR 196.00	EUR 279.00		

FF217800

Outside Diameter..... 15.0mm
 Inside Diameter..... 11mm

Wall Thickness..... 2.0mm
 Temper..... Annealed



Size

Web Code
 591-999-807
 481-933-086
 358-381-190
 970-571-439

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	EUR 102.00	EUR 128.00	EUR 176.00	EUR 233.00
200 mm	EUR 123.00	EUR 159.00	EUR 224.00	EUR 349.00
500 mm	EUR 166.00	EUR 219.00		
1000 mm	EUR 213.00	EUR 335.00		



Powder

FF216030

Mean Particle size..... 3micron

Condition..... Atomised



Web Code
 307-194-716
 688-465-521
 433-650-014
 775-107-078

Weight	Quantity
	1 Pot
20 g	EUR 191.00
50 g	EUR 255.00
100 g	EUR 422.00
200 g	EUR 755.00

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.

FF216040

Max. Particle size..... 45micron

Condition..... Atomised



Web Code
 389-243-109
 676-142-283
 835-972-043
 732-052-870

Weight	Quantity
	1 Pot
50 g	EUR 177.00
100 g	EUR 214.00
200 g	EUR 324.00
500 g	EUR 678.00

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.

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