

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 Inconel[®] alloy
600 - Heat Resisting Alloy (Ni72/Cr16/Fe
8)**

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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 Catalog 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 Catalog at www.goodfellowusa.com.

Materials

Metals and Alloys

Goodfellow supplies virtually all of the pure metals from Aluminum 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 Catalog details those glassy metals which are available from stock; please contact us if you are unable to find the item you specifically require.

Product Descriptions



Bar

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

Tolerances

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



Bolt

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

Tolerances

See item



Chopped Fiber

Fibers cut into short lengths called cut, staple or chopped fiber.

Tolerances

Fiber 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%



Fiber

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

Fiber 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%



Metallized Film

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

Tolerances

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

Product Descriptions



Microfoil

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

Tolerances

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



Microleaf

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

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 fibers being held together, often quite loosely, by means other than geometric interlacing. Due to the open and porous nature of this material, all other dimensions are nominal.

Tolerances

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



Nut

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

Tolerances

See item



Powder

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

Tolerances

Dimensions shown are nominal



Rod

A straight length of circular section material.

Tolerances

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

Product Descriptions



Sheet

Flat material with a thickness >0.5mm.

Tolerances

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



Single Crystal

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

Tolerances

Orientation:	± 3°
Size:	Sizes shown are nominal



Sphere

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

Tolerances

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



Sputtering Target

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

Tolerances

Thickness:	± 0.5mm
Size:	± 0.5mm



Tube

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

Tolerances

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



Washer

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

Tolerances

See item



Wire

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

Tolerances

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

Hazards Information

HAZARDS

All materials listed in this catalog, 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 catalog, 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 catalog 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 in the catalog 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 shown are in US\$ and include free delivery by our standard 48 hour service except for those items marked as "special offer" or dangerous goods with transport restriction. Prices are subject to change without notice and orders will be invoiced at prices ruling on the date of despatch.

Transport Restriction

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

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

Delivery

Delivery by UPS or Federal Express is included in the prices, although alternative methods may be used depending on the materials ordered.

Split Shipment

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

Special Analysis, Supports or Tolerances

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

Cancellations

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

Express Service

Please inform us if you need to have your goods shipped urgently. An administrative charge will be made for this service, details can be found on our website.

Shipment

We aim to have all items listed in this catalog in stock in the quantities and sizes listed. We can only undertake to ship 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 shipped within 48 hours of receipt.

Non-delivery

If we have notified you of the shipment of goods and you have not received delivery within 5 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

Order information

invoice with their first order. In order to establish a credit account we will require details of your bankers, along with two trade references.

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 and American Express.

VAT

VAT number for Goodfellow Cambridge: 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 color 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

Order information

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

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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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

Inconel[®] alloy 600 - Heat Resisting Alloy
Ni72/Cr16/Fe 8

Common Brand Names : INCONEL[®] alloy 600

A Nickel/Chromium alloy with good oxidation resistance at high temperatures. It is resistant to chloride ion stress corrosion cracking, corrosion by pure water and caustic corrosion. Used for furnace components, in chemical and food processing, nuclear engineering and for spark electrodes.

Physical Properties

Density 8.42 g cm⁻³
 Melting point 1370-1425 C

Magnetic Properties

Curie temperature -124 C
 Initial permeability 1.010

Electrical Properties

Electrical resistivity 103 μOhmcm

Thermal Properties

Coefficient of thermal expansion @20-100C 11.5-13.3 x10⁻⁶ K⁻¹
 Specific heat @23C 444 J K⁻¹ kg⁻¹
 Thermal conductivity @23C 14.8 W m⁻¹ K⁻¹

Mechanical Properties

Elongation at break < 50 %
 Hardness - Brinell 120-290
 Izod impact strength 160 J m⁻¹
 Modulus of elasticity 157 GPa
 Shear strength 420-570 MPa
 Tensile strength 600-1200 MPa



Foil

NI020203 Thickness 0.0125mm

Temper Annealed

NLT Sizes

Web Code
 939-275-165
 077-773-233

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
150 x 150 mm	USD 268.00	USD 320.00	USD 426.00	USD 551.00
300 x 300 mm	USD 386.00	USD 487.00	USD 691.00	

Sizes LT

Web Code
 989-906-342
 098-163-850

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
150 x 150 mm	USD 295.00	USD 352.00	USD 469.00	USD 606.00
300 x 300 mm	USD 483.00	USD 609.00	USD 864.00	

Coil

Web Code
 218-535-828
 699-460-710
 900-252-538

Length	Quantity	
	1 Reel	
0.5 m	USD 506.00	
1 m	USD 634.00	
2 m	USD 890.00	

Disks

Web Code
 246-451-464
 230-636-116
 155-834-629
 193-406-588
 115-892-408
 606-011-262
 375-815-546

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 311.00	USD 352.00	USD 453.00
6 mm	USD 317.00	USD 361.00	USD 466.00
8 mm	USD 323.00	USD 369.00	USD 480.00
10 mm	USD 329.00	USD 378.00	USD 493.00
15 mm	USD 344.00	USD 399.00	USD 527.00
25 mm	USD 374.00	USD 441.00	USD 594.00
50 mm	USD 449.00	USD 548.00	USD 762.00

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI020201 Thickness 0.025mm

Temper Hard

Size

Web Code
 642-603-455
 339-548-359

Size	Quantity		
	1pc	2pcs	5pcs
25 x 25 mm	USD 169.00	USD 180.00	USD 205.00
50 x 50 mm	USD 188.00	USD 207.00	USD 248.00

Disks

Web Code
 572-647-011
 023-574-891
 761-131-439
 262-057-686
 881-920-977
 974-251-196

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 311.00	USD 352.00	USD 452.00
6 mm	USD 317.00	USD 360.00	USD 465.00
8 mm	USD 323.00	USD 368.00	USD 478.00
10 mm	USD 328.00	USD 377.00	USD 492.00
15 mm	USD 343.00	USD 397.00	USD 524.00
25 mm	USD 372.00		

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

Alloy – Inconel[®] alloy 600 - Heat Resisting Alloy

Inconel® alloy 600 - Heat Resisting Alloy

Ni72/Cr16/Fe 8



Foil

NI020202

Thickness **0.025mm**

Temper **Annealed**

Size

Web Code
 740-137-358
 448-136-620

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
150 x 150 mm	USD 265.00	USD 316.00	USD 420.00	USD 542.00
300 x 300 mm	USD 381.00	USD 479.00	USD 678.00	

Coil

Web Code
 806-512-357
 705-260-775
 843-545-106

Width 305mm

Length	1 Reel
	0.5 m
1 m	USD 623.00
2 m	USD 857.00

Disks

Web Code
 034-229-113
 264-083-471
 398-697-790
 665-377-607
 315-297-185
 986-603-460
 559-853-493

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 311.00	USD 352.00	USD 452.00
6 mm	USD 317.00	USD 360.00	USD 465.00
8 mm	USD 323.00	USD 368.00	USD 478.00
10 mm	USD 328.00	USD 377.00	USD 492.00
15 mm	USD 343.00	USD 397.00	USD 524.00
25 mm	USD 372.00	USD 439.00	USD 590.00
50 mm	USD 446.00	USD 542.00	USD 754.00

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI020204

Thickness **0.05mm**

Temper **Annealed**

Size

Web Code
 396-247-237
 770-805-078

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
150 x 150 mm	USD 263.00	USD 313.00	USD 414.00	USD 534.00
300 x 300 mm	USD 376.00	USD 472.00	USD 667.00	

Coil

Web Code
 665-583-363
 150-810-058
 412-136-184

Width 305mm

Length	1 Reel
	0.5 m
1 m	USD 614.00
2 m	USD 830.00

Disks

Web Code
 909-121-352
 809-305-161
 466-656-036
 912-801-892
 167-082-375
 348-313-468
 563-071-468

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 311.00	USD 351.00	USD 452.00
6 mm	USD 316.00	USD 360.00	USD 465.00
8 mm	USD 322.00	USD 368.00	USD 477.00
10 mm	USD 328.00	USD 376.00	USD 490.00
15 mm	USD 342.00	USD 396.00	USD 522.00
25 mm	USD 371.00	USD 436.00	USD 586.00
50 mm	USD 442.00	USD 538.00	USD 747.00

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI020200

Thickness **0.075mm**

Temper **Annealed**

Size

Web Code
 277-603-504
 700-449-152
 556-143-046
 866-176-714
 735-911-519

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
25 x 25 mm	USD 165.00	USD 175.00	USD 197.00	USD 226.00	USD 277.00
50 x 50 mm	USD 181.00	USD 197.00	USD 232.00	USD 276.00	USD 347.00
100 x 100 mm	USD 213.00	USD 242.00	USD 302.00	USD 376.00	USD 488.00
140 x 150 mm	USD 241.00	USD 282.00	USD 366.00	USD 465.00	
300 x 300 mm	USD 338.00	USD 420.00	USD 584.00		

Coil

Web Code
 695-392-713
 988-940-085
 617-500-219

Width 305mm

Length	1 Reel
	0.5 m
1 m	USD 546.00
2 m	USD 690.00

Disks

Web Code
 441-118-104
 139-773-447
 471-683-986
 960-490-316
 061-293-891
 661-729-124
 716-142-237

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 309.00	USD 349.00	USD 448.00
6 mm	USD 314.00	USD 356.00	USD 458.00
8 mm	USD 318.00	USD 362.00	USD 469.00
10 mm	USD 323.00	USD 369.00	USD 480.00
15 mm	USD 335.00	USD 386.00	USD 506.00
25 mm	USD 359.00	USD 420.00	USD 560.00
50 mm	USD 419.00	USD 504.00	USD 694.00

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

Alloy – Inconel® alloy 600 - Heat Resisting Alloy

Inconel® alloy 600 - Heat Resisting Alloy

Ni72/Cr16/Fe 8



Foil

NI020206

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

Coil width **76mm**

Coil		Width 76mm	Quantity
Web Code	Length	1 Reel	
230-814-200	0.5 m	USD 336.00	
723-594-118	1 m	USD 394.00	
390-057-603	2 m	USD 476.00	
204-412-140	5 m	USD 639.00	
067-155-939	10 m	USD 903.00	

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI020205

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

Web Code	Size	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
517-776-476	25 x 25 mm	USD 167.00	USD 178.00	USD 201.00	USD 233.00	USD 286.00
722-053-433	50 x 50 mm	USD 185.00	USD 203.00	USD 241.00	USD 289.00	USD 365.00
256-680-293	100 x 100 mm	USD 221.00	USD 253.00	USD 320.00	USD 401.00	USD 524.00
085-027-461	150 x 150 mm	USD 256.00	USD 303.00	USD 399.00	USD 513.00	USD 682.00
628-430-702	300 x 300 mm	USD 362.00	USD 453.00	USD 637.00		

Coil		Width 305mm	Quantity
Web Code	Length	1 Reel	
594-441-857	0.5 m	USD 475.00	
553-846-019	1 m	USD 590.00	
230-756-811	2 m	USD 757.00	

Web Code	Diameter	Quantity		
		10 disks	20 disks	50 disks
844-606-429	4 mm	USD 300.00	USD 337.00	USD 429.00
575-802-293	6 mm	USD 305.00	USD 344.00	USD 440.00
975-282-144	8 mm	USD 310.00	USD 351.00	USD 451.00
910-274-367	10 mm	USD 315.00	USD 358.00	USD 462.00
784-299-650	15 mm	USD 327.00	USD 376.00	USD 489.00
037-454-700	25 mm	USD 352.00	USD 410.00	USD 545.00
681-839-941	50 mm	USD 414.00	USD 498.00	USD 683.00

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI020210

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

Web Code	Size	Quantity				
		1pc	2pcs	5pcs	10pcs	20pcs
229-997-644	25 x 25 mm	USD 175.00	USD 184.00	USD 207.00	USD 237.00	USD 289.00
749-700-960	50 x 50 mm	USD 191.00	USD 208.00	USD 244.00	USD 289.00	USD 362.00
712-616-704	100 x 100 mm	USD 224.00	USD 254.00	USD 317.00	USD 393.00	USD 529.00
077-089-560	150 x 150 mm	USD 257.00	USD 300.00	USD 390.00	USD 539.00	
480-878-494	300 x 300 mm	USD 355.00	USD 444.00	USD 877.00		

Coil		Width 305mm	Quantity
Web Code	Length	1 Reel	
548-939-085	0.5 m	USD 463.00	
524-045-663	1 m	USD 686.00	
505-705-467	2 m	USD 1166.00	

Web Code	Diameter	Quantity		
		10 disks	20 disks	50 disks
213-176-993	4 mm	USD 318.00	USD 358.00	USD 457.00
647-117-516	6 mm	USD 323.00	USD 365.00	USD 468.00
889-692-243	8 mm	USD 328.00	USD 372.00	USD 479.00
211-525-069	10 mm	USD 333.00	USD 379.00	USD 491.00
440-632-106	15 mm	USD 345.00	USD 397.00	USD 519.00
079-021-436	25 mm	USD 370.00	USD 432.00	USD 575.00
877-680-510	50 mm	USD 433.00	USD 522.00	USD 718.00

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI020240

Thickness **0.4mm** Temper **Annealed**

Web Code	Size	Quantity	
		1pc	2pcs
083-873-322	25 x 25 mm	USD 189.00	USD 205.00
993-974-560	50 x 50 mm	USD 221.00	USD 251.00
349-273-869	63 x 125 mm	USD 271.00	USD 321.00
653-033-550	67 x 115 mm	USD 270.00	
443-300-264	100 x 150 mm	USD 314.00	

Alloy – Inconel® alloy 600 - Heat Resisting Alloy

Inconel[®] alloy 600 - Heat Resisting Alloy

Ni72/Cr16/Fe 8



Foil

NI020401

Thickness **0.5mm**

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



Size

Web Code
 294-966-066
 870-758-381
 844-788-879

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 240.00	USD 284.00	USD 378.00	USD 497.00
50 x 50 mm	USD 328.00	USD 409.00	USD 576.00	
100 x 100 mm	USD 505.00			

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.
 This item is shown as an example of Titanium Nitride (TiN) coated material. Other items or your own material may also have a coating applied, please ask for more details.

NI020400

Thickness **0.5mm**

Temper **Annealed**



Size

Web Code
 758-666-648
 245-910-907
 470-804-926
 590-462-173

Size	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
50 x 50 mm	USD 221.00	USD 254.00	USD 322.00	USD 403.00	USD 527.00
100 x 100 mm	USD 293.00	USD 355.00	USD 482.00	USD 630.00	
150 x 150 mm	USD 365.00	USD 457.00	USD 642.00		
300 x 300 mm	USD 580.00				

Coil

Web Code
 599-615-725
 080-746-506

Length	Quantity
	1 Reel
0.2 m	USD 551.00
0.5 m	USD 757.00

Disks

Web Code
 833-332-911
 166-614-594
 826-814-091
 351-759-557
 969-938-824
 242-359-724

Diameter	Quantity		
	10 disks	20 disks	50 disks
4 mm	USD 321.00	USD 366.00	USD 475.00
6 mm	USD 332.00	USD 382.00	USD 499.00
8 mm	USD 343.00	USD 397.00	USD 524.00
10 mm	USD 354.00	USD 412.00	USD 548.00
15 mm	USD 381.00	USD 451.00	USD 610.00
25 mm	USD 436.00	USD 528.00	

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI020450

Thickness **0.635mm**

Temper **Annealed**



Size

Web Code
 584-221-807
 027-736-169
 467-022-907
 377-869-995
 566-426-103

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 190.00	USD 210.00	USD 252.00	USD 304.00
50 x 50 mm	USD 230.00	USD 267.00	USD 342.00	USD 432.00
100 x 100 mm	USD 311.00	USD 381.00	USD 523.00	
150 x 150 mm	USD 392.00	USD 495.00		
300 x 300 mm	USD 634.00			

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI020520

Thickness **1.0mm**

Temper **Annealed**



Size

Web Code
 433-826-281
 983-011-130
 272-948-684
 618-586-605
 595-619-720

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 184.00	USD 198.00	USD 230.00	USD 272.00
50 x 50 mm	USD 208.00	USD 231.00	USD 282.00	USD 346.00
100 x 100 mm	USD 254.00	USD 297.00	USD 386.00	
150 x 150 mm	USD 301.00	USD 363.00		
300 x 300 mm	USD 440.00			

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI020550

Thickness **2.0mm**

Temper **Annealed**



Size

Web Code
 512-242-407
 030-311-863
 788-977-405
 622-176-262
 772-026-938

Size	Quantity			
	1pc	2pcs	5pcs	10pcs
25 x 25 mm	USD 194.00	USD 212.00	USD 251.00	USD 303.00
50 x 50 mm	USD 227.00	USD 258.00	USD 325.00	USD 407.00
100 x 100 mm	USD 293.00	USD 351.00	USD 472.00	
150 x 150 mm	USD 359.00	USD 445.00		
300 x 300 mm	USD 600.00			

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI020560

Thickness **3.0mm**

Temper **Annealed**



Size

Web Code
 784-448-725
 561-725-841
 833-115-896

Size	Quantity		
	1pc	2pcs	5pcs
50 x 50 mm	USD 242.00	USD 279.00	USD 358.00
100 x 100 mm	USD 322.00	USD 393.00	
200 x 200 mm	USD 484.00		

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI020575

Thickness **5.0mm**



Size

Web Code
 358-042-579

Size	Quantity	
	1pc	2pcs
150 x 150 mm	USD 457.00	USD 640.00

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

Alloy – Inconel[®] alloy 600 - Heat Resisting Alloy

Inconel[®] alloy 600 - Heat Resisting Alloy

Ni72/Cr16/Fe 8



Foil

NI020600

Thickness 8.0mm



Size

Web Code
 470-907-748
 534-322-767
 312-673-462
 841-318-491

Size
 50 x 100 mm
 50 x 150 mm
 102 x 102 mm
 150 x 150 mm

		Quantity		
		1pc	2pcs	5pcs
50 x 100 mm	USD 346.00	USD 462.00	USD 514.00	POA
50 x 150 mm	USD 383.00	USD 514.00	USD 564.00	POA
102 x 102 mm	USD 418.00	USD 564.00		
150 x 150 mm	USD 529.00			

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI020650

Thickness 12mm



Size

Web Code
 233-058-568
 881-933-684
 435-744-415

Size
 103 x 103 mm
 108 x 210 mm
 210 x 210 mm

		Quantity
		1pc
103 x 103 mm	USD 474.00	
108 x 210 mm	USD 677.00	
210 x 210 mm	USD 1145.00	

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.



Wire

NI025100

Diameter 0.05mm

Temper Hard



Length

Web Code
 027-137-118
 392-144-693
 110-994-714
 259-894-962
 486-867-097

		Quantity
		1 Reel
50 m	USD 171.00	
100 m	USD 188.00	
500 m	USD 280.00	
1000 m	USD 369.00	
2000 m	USD 453.00	

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI025110

Diameter 0.10mm

Temper Hard



Length

Web Code
 014-441-939
 120-312-210
 494-155-535
 074-145-016
 994-996-515

		Quantity
		1 Reel
10 m	USD 184.00	
20 m	USD 204.00	
50 m	USD 246.00	
100 m	USD 294.00	
200 m	USD 358.00	

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI025125

Diameter 0.20mm

Temper Hard



Length

Web Code
 598-132-646
 760-589-831
 423-022-368
 631-408-918
 168-077-872

		Quantity
		1 Reel
10 m	USD 187.00	
20 m	USD 209.00	
50 m	USD 253.00	
100 m	USD 304.00	
200 m	USD 372.00	

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI025130

Diameter 0.25mm

Temper Hard



Length

Web Code
 920-283-933
 680-548-788
 683-358-699
 383-542-160
 866-558-974

		Quantity
		1 Reel
10 m	USD 191.00	
20 m	USD 214.00	
50 m	USD 260.00	
100 m	USD 315.00	
200 m	USD 387.00	

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI025133

Diameter 0.30mm

Temper Hard



Length

Web Code
 013-759-383
 034-858-080
 581-143-579
 511-097-585
 555-686-491

		Quantity
		1 Reel
10 m	USD 201.00	
20 m	USD 228.00	
50 m	USD 283.00	
100 m	USD 346.00	
200 m	USD 452.00	

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

Alloy – Inconel[®] alloy 600 - Heat Resisting Alloy

Inconel[®] alloy 600 - Heat Resisting Alloy

Ni72/Cr16/Fe 8



Wire

NI025136

Diameter **0.40mm**

Temper **Hard**



Length

Web Code
 325-437-041
 484-432-617
 657-661-568
 392-393-768
 347-765-913

Quantity	
Length	1 Reel
5 m	USD 195.00
10 m	USD 220.00
20 m	USD 255.00
50 m	USD 326.00
100 m	USD 407.00

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI025137

Diameter **0.40mm**

Temper **Annealed**



Length

Web Code
 931-625-063
 548-266-341
 187-494-147
 643-530-568
 739-795-998

Quantity	
Length	1 Reel
5 m	USD 195.00
10 m	USD 220.00
20 m	USD 255.00
50 m	USD 326.00
100 m	USD 407.00

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI025140

Diameter **0.5mm**

Temper **Hard**



Length

Web Code
 602-560-657
 213-037-177
 221-310-219
 232-333-950
 839-800-205

Quantity	
Length	1 Reel
5 m	USD 209.00
10 m	USD 240.00
20 m	USD 283.00
50 m	USD 370.00
100 m	USD 543.00

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI025143

Diameter **0.60mm**

Temper **Hard**



Length

Web Code
 391-231-322
 240-588-852
 357-511-570
 629-011-322
 444-771-305

Quantity	
Length	1 Reel
5 m	USD 211.00
10 m	USD 242.00
20 m	USD 287.00
50 m	USD 376.00
100 m	USD 564.00

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI025149

Diameter **0.9mm**

Temper **Hard**



Length

Web Code
 326-315-113
 190-426-917
 915-160-241
 656-151-370
 412-081-842

Quantity	
Length	1 Reel
5 m	USD 217.00
10 m	USD 251.00
20 m	USD 299.00
50 m	USD 396.00
100 m	USD 638.00

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI025150

Diameter **1.0mm**

Temper **Hard**



Length

Web Code
 297-064-974
 133-123-031
 640-378-084
 047-255-141
 906-894-067

Quantity	
Length	1 Reel
5 m	USD 221.00
10 m	USD 256.00
20 m	USD 306.00
50 m	USD 408.00
100 m	USD 680.00

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.



Rod

NI027902

Diameter **2.0mm**

Temper **Annealed**



Size

Web Code
 856-741-897
 464-859-950
 454-619-431
 922-109-142

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 153.00	USD 185.00	USD 210.00	USD 244.00	USD 301.00
200 mm	USD 161.00	USD 196.00	USD 228.00	USD 269.00	USD 336.00
500 mm	USD 177.00	USD 218.00	USD 263.00	USD 318.00	
1000 mm	USD 194.00	USD 243.00	USD 302.00		

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

Alloy – Inconel[®] alloy 600 - Heat Resisting Alloy

Inconel® alloy 600 - Heat Resisting Alloy
Ni72/Cr16/Fe 8



Rod

NI027904

Diameter..... **2.5mm**

Temper..... **Annealed**



Size

Web Code
 809-980-820
 973-887-467
 669-100-465
 250-331-373

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 158.00	USD 192.00	USD 222.00	USD 260.00	USD 324.00
200 mm	USD 168.00	USD 206.00	USD 244.00	USD 292.00	USD 382.00
500 mm	USD 188.00	USD 234.00	USD 288.00	USD 392.00	
1000 mm	USD 210.00	USD 266.00	USD 376.00		

NI027905

Diameter..... **3.2mm**

Temper..... **Annealed**



Size

Web Code
 475-446-776
 540-569-876
 368-917-594
 653-638-674

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 163.00	USD 199.00	USD 232.00	USD 274.00	USD 344.00
200 mm	USD 174.00	USD 215.00	USD 258.00	USD 311.00	USD 449.00
500 mm	USD 198.00	USD 248.00	USD 314.00	USD 475.00	
1000 mm	USD 224.00	USD 286.00	USD 459.00		

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI027910

Diameter..... **6.0mm**

Temper..... **Annealed**



Size

Web Code
 690-329-762
 291-213-425
 401-684-709
 210-589-168

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 186.00	USD 211.00	USD 270.00	USD 351.00
200 mm	USD 203.00	USD 236.00	USD 309.00	USD 465.00
500 mm	USD 237.00	USD 284.00		
1000 mm	USD 275.00	USD 399.00		

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI027920

Diameter..... **12.7mm**

Temper..... **Annealed**



Size

Web Code
 323-643-128
 455-396-131
 924-515-178
 564-392-108

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 203.00	USD 237.00	USD 308.00	USD 395.00	USD 645.00
200 mm	USD 233.00	USD 279.00	USD 374.00	USD 603.00	
500 mm	USD 292.00	USD 362.00			
1000 mm	USD 358.00	USD 570.00			

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI027930

Diameter..... **20.0mm**

Temper..... **Annealed**



Size

Web Code
 819-216-411
 549-017-735
 627-215-145
 401-898-999
 237-366-525

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
50 mm	USD 218.00	USD 265.00	USD 381.00	USD 635.00
100 mm	USD 249.00	USD 309.00	USD 558.00	POA
200 mm	USD 293.00	USD 441.00	POA	
500 mm	USD 496.00	POA		
1000 mm	POA			

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI027935

Diameter..... **25mm**

Temper..... **Annealed**



Size

Web Code
 691-039-640
 380-855-540
 819-943-590
 252-801-754
 311-726-665

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
50 mm	USD 235.00	USD 288.00	USD 467.00	USD 807.00
100 mm	USD 273.00	USD 368.00	USD 730.00	POA
200 mm	USD 353.00	USD 578.00	POA	
500 mm	USD 668.00	POA		
1000 mm	POA			

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI027940

Diameter..... **40mm**

Temper..... **Annealed**



Size

Web Code
 444-610-213
 434-565-300
 676-010-559

Length	Quantity	
	1pc	2pcs
50 mm	USD 273.00	USD 357.00
100 mm	USD 341.00	USD 548.00
200 mm	USD 532.00	

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.



Tube

NI027100

Outside Diameter..... **1.0mm**
 Inside Diameter..... **0.4mm**

Wall Thickness..... **0.3mm**
 Temper..... **As drawn**



Size

Web Code
 189-041-700
 710-123-370
 407-750-927
 864-369-402

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 217.00	USD 250.00	USD 323.00	USD 416.00
200 mm	USD 243.00	USD 286.00	USD 404.00	USD 635.00
500 mm	USD 294.00	USD 381.00		
1000 mm	USD 374.00	USD 600.00		

Alloy – Inconel® alloy 600 - Heat Resisting Alloy

Inconel[®] alloy 600 - Heat Resisting Alloy
Ni72/Cr16/Fe 8



Tube

<p>NI027130</p> <p><input checked="" type="checkbox"/> Xi <input checked="" type="checkbox"/> Xn</p>	<p>Outside Diameter..... 1.33mm Inside Diameter..... 0.83mm</p> <p>Size Web Code 361-762-380</p>	<p>Wall Thickness..... 0.25mm</p> <p>Quantity</p> <p>Length 1pc 100 mm USD 215.00</p>
<p>NI027150</p> <p><input checked="" type="checkbox"/> Xi <input checked="" type="checkbox"/> Xn</p>	<p>Outside Diameter..... 1.5mm Inside Diameter..... 1mm</p> <p>Size Web Code 877-752-626 529-058-095 908-254-084 995-763-323</p>	<p>Wall Thickness..... 0.25mm</p> <p>Quantity</p> <p>Length 1pc 2pcs 5pcs 10pcs 100 mm USD 212.00 USD 243.00 USD 312.00 USD 381.00 200 mm USD 235.00 USD 276.00 USD 369.00 USD 565.00 500 mm USD 282.00 USD 346.00 1000 mm USD 339.00 USD 530.00</p>
<p>NI027200</p> <p><input checked="" type="checkbox"/> Xi <input checked="" type="checkbox"/> Xn</p>	<p>Outside Diameter..... 1.96mm Inside Diameter..... 1.22mm</p> <p>Size Web Code 993-261-556 157-697-052 712-132-844 016-605-754</p>	<p>Wall Thickness..... 0.37mm</p> <p>Quantity</p> <p>Length 1pc 2pcs 5pcs 10pcs 100 mm USD 209.00 USD 239.00 USD 306.00 USD 368.00 200 mm USD 232.00 USD 271.00 USD 355.00 USD 530.00 500 mm USD 276.00 USD 333.00 1000 mm USD 326.00 USD 495.00</p>
<p>NI027221</p> <p><input checked="" type="checkbox"/> Xi <input checked="" type="checkbox"/> Xn</p>	<p>Outside Diameter..... 2.1mm Inside Diameter..... 1.7mm</p> <p>Size Web Code 116-978-025</p>	<p>Wall Thickness..... 0.2mm</p> <p>Quantity</p> <p>Length 1pc 2pcs 5pcs 10pcs 150 mm USD 238.00 USD 280.00 USD 382.00 USD 591.00</p>
<p>NI027225</p> <p><input checked="" type="checkbox"/> Xi <input checked="" type="checkbox"/> Xn</p>	<p>Outside Diameter..... 2.5mm Inside Diameter..... 2.0mm</p> <p>Size Web Code 515-094-375 836-187-473 364-457-988 870-337-190</p>	<p>Wall Thickness..... 0.25mm</p> <p>Quantity</p> <p>Length 1pc 2pcs 5pcs 10pcs 100 mm USD 217.00 USD 250.00 USD 323.00 USD 415.00 200 mm USD 243.00 USD 286.00 USD 403.00 USD 633.00 500 mm USD 293.00 USD 380.00 1000 mm USD 373.00 USD 598.00</p>
<p>NI027230</p> <p><input checked="" type="checkbox"/> Xi <input checked="" type="checkbox"/> Xn</p>	<p>Outside Diameter..... 3.02mm Inside Diameter..... 2.5mm</p> <p>Size Web Code 218-961-745 472-329-744 656-218-647 191-839-894</p>	<p>Wall Thickness..... 0.26mm</p> <p>Quantity</p> <p>Length 1pc 2pcs 5pcs 10pcs 100 mm USD 220.00 USD 254.00 USD 329.00 USD 434.00 200 mm USD 246.00 USD 291.00 USD 421.00 USD 670.00 500 mm USD 299.00 USD 399.00 1000 mm USD 391.00 USD 635.00</p>
<p>NI027351</p> <p><input checked="" type="checkbox"/> Xi <input checked="" type="checkbox"/> Xn</p>	<p>Outside Diameter..... 6.0mm Inside Diameter..... 4.0mm</p> <p>Size Web Code 187-716-443 965-247-923 892-497-323 698-836-886</p>	<p>Wall Thickness..... 1mm Temper..... Annealed</p> <p>Quantity</p> <p>Length 1pc 2pcs 5pcs 10pcs 20pcs 100 mm USD 230.00 USD 269.00 USD 346.00 USD 524.00 USD 881.00 200 mm USD 261.00 USD 312.00 USD 514.00 USD 860.00 500 mm USD 325.00 USD 501.00 1000 mm USD 493.00 USD 837.00</p>
<p>Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.</p>		
<p>NI027350</p> <p><input checked="" type="checkbox"/> Xi <input checked="" type="checkbox"/> Xn</p>	<p>Outside Diameter..... 6.15mm Inside Diameter..... 5.15mm</p> <p>Size Web Code 724-521-019 418-563-859 327-172-244 781-294-676</p>	<p>Wall Thickness..... 0.5mm Temper..... Annealed</p> <p>Quantity</p> <p>Length 1pc 2pcs 5pcs 10pcs 20pcs 100 mm USD 230.00 USD 269.00 USD 346.00 USD 524.00 USD 881.00 200 mm USD 261.00 USD 312.00 USD 514.00 USD 860.00 500 mm USD 325.00 USD 501.00 USD 1018.00 1000 mm USD 493.00 USD 837.00</p>
<p>Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.</p>		
<p>NI027400</p> <p><input checked="" type="checkbox"/> Xi <input checked="" type="checkbox"/> Xn</p>	<p>Outside Diameter..... 7.5mm Inside Diameter..... 6.1mm</p> <p>Size Web Code 075-716-625 370-174-026 549-851-792 828-824-025</p>	<p>Wall Thickness..... 0.7mm Temper..... Annealed</p> <p>Quantity</p> <p>Length 1pc 2pcs 5pcs 10pcs 20pcs 100 mm USD 235.00 USD 276.00 USD 369.00 USD 570.00 USD 972.00 245 mm USD 279.00 USD 352.00 USD 645.00 USD 1123.00 490 mm USD 344.00 USD 539.00 USD 1113.00 980 mm USD 531.00 USD 913.00</p>
<p>Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.</p>		

Alloy – Inconel[®] alloy 600 - Heat Resisting Alloy

Inconel[®] alloy 600 - Heat Resisting Alloy
Ni72/Cr16/Fe 8



Tube

NI027410

Outside Diameter **7.8mm**
 Inside Diameter **6.5mm**

Wall Thickness **0.65mm**
 Temper **Annealed**



Size

Web Code
 036-814-912

Length	Quantity			
	5pcs	10pcs	20pcs	50pcs
35 mm	USD 281.00	USD 335.00	USD 476.00	USD 940.00

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI027450

Outside Diameter **9.5mm**
 Inside Diameter **6.1mm**

Wall Thickness **1.7mm**
 Temper **Annealed**



Size

Web Code
 437-764-349
 720-544-249
 068-031-536
 503-942-693

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 212.00	USD 254.00	USD 375.00	USD 623.00	USD 1053.00
200 mm	USD 244.00	USD 305.00	USD 572.00	USD 1018.00	
500 mm	USD 334.00	USD 541.00	USD 1164.00		
1000 mm	USD 531.00	USD 936.00			

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI027500

Outside Diameter **12.7mm**
 Inside Diameter **9.44mm**

Wall Thickness **1.63mm**
 Temper **Annealed**



Size

Web Code
 992-833-487
 104-186-997
 023-374-987
 921-864-005

Length	Quantity				
	1pc	2pcs	5pcs	10pcs	20pcs
100 mm	USD 196.00	USD 231.00	USD 312.00	USD 498.00	USD 804.00
200 mm	USD 221.00	USD 266.00	USD 447.00	USD 768.00	
500 mm	USD 271.00	USD 416.00			
1000 mm	USD 406.00	USD 686.00			

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI027600

Outside Diameter **19.0mm**
 Inside Diameter **12.5mm**

Wall Thickness **3.25mm**
 Temper **Annealed**



Size

Web Code
 885-202-503

Length	Quantity		
	1pc	2pcs	5pcs
200 mm	USD 262.00	USD 334.00	USD 645.00

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI027660

Outside Diameter **25.4mm**
 Inside Diameter **18.9mm**

Wall Thickness **3.25mm**
 Temper **Annealed**



Size

Web Code
 212-365-435
 545-685-360
 210-668-142
 333-522-648

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 264.00	USD 312.00	USD 487.00	POA
200 mm	USD 308.00	USD 410.00	POA	POA
500 mm	USD 467.00	POA		
1000 mm	POA			

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.

NI027661

Outside Diameter **25.4mm**
 Inside Diameter **22.1mm**

Wall Thickness **1.65mm**
 Temper **Annealed**



Size

Web Code
 933-709-346
 901-511-303
 633-098-108
 845-324-517

Length	Quantity			
	1pc	2pcs	5pcs	10pcs
100 mm	USD 255.00	USD 300.00	USD 436.00	POA
200 mm	USD 295.00	USD 370.00	POA	
500 mm	USD 417.00	POA		
1000 mm	POA			

Typical Analysis : Cr 15.5%, Cu < 5000, Fe 8%, Mn < 1%, Si 5000, C < 1500, S < 150, Ni + Co balance.



Powder

NI026030

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

Condition **Gas atomized**



Web Code
 217-291-680

Quantity	Weight
1 Pot	100 g
POA	

May be suitable for additive manufacturing research and development purposes.
 Shipping Restriction. Additional shipment charges apply which are dependent on destination. Please check the individual item on our website or contact us for further details.

Alloy – Inconel[®] alloy 600 - Heat Resisting Alloy

Inconel® alloy 600 - Heat Resisting Alloy
Ni72/Cr16/Fe 8



Powder

NI026075

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

Condition..... **Gas atomized**

F	Xn	Xi
Xn		

Web Code
 729-811-757

Quantity
Weight
 100 g

1 Pot
 POA

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

Alloy – Inconel® alloy 600 - Heat Resisting Alloy

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