



# Excel Industries

For Excellent **STAINLESS STEEL** Products

**Product Catalogue & Guide**

# ABOUT US

Our company was founded with the vision of becoming a **Leading Supplier, Stockist and Manufacturers of Stainless Steel Products**, and we have achieved that by sourcing only the finest materials from reputable mills and manufacturers around the world. Our commitment to **quality** is evident in every product we sell, and we stand behind our products with a **guarantee of satisfaction**.

At our company, we understand the importance of reliability, consistency, and **timely delivery**. That's why we have developed a **comprehensive supply chain management system** that ensures the prompt and efficient delivery of products to our customers.

Our extensive range of stainless steel products includes a **wide variety of grades, sizes, and finishes**. Whether you are looking for **stainless steel sheets, coils, bars, pipes**, or any other product, our **knowledgeable and experienced team** is always ready to assist you in finding the right product for your application.

Our experienced team with combined experience of more than **30 years** offers personalized attention and exceptional support to build **long-term relationships**. At our company, you can always count on receiving the highest level of customer service, competitive pricing, and **reliable products**.

## **INDUSTRIES WE SERVE**

- CHEMICAL INDUSTRY
- PHARMA INDUSTRY
- OIL AND GAS INDUSTRY
- FERTILIZERS INDUSTRY
- TEXTILE INDUSTRY
- CONSTRUCTION AND ARCHITECTURE
- AEROSPACE INDUSTRY
- FOOD AND DAIRY INDUSTRY
- ENGINEERING INDUSTRY
- POWER PLANTS

## **BENEFITS OF DOING BUSINESS WITH US**

- WIDE VARIETY OF PRODUCTS
- WE ACCEPT SMALL QUANTITY ORDERS AS WELL
- ON TIME DELIVERY
- PERSONALIZED LENGTH AND SIZE AS PER YOUR NEED
- BEST QUALITY PRODUCTS
- VAST EXPERIENCE
- TRANSPARENT AND HONEST PRICING
- WE SERVE GLOBALLY
- OPEN COMMUNICATION
- ETHICS OVER PROFITS

Thank you for considering our company for your needs. We look forward to working with you and providing you with the best possible products and services.

# PRODUCTS WE DEAL IN

## 1. PIPES/TUBES

A pipe is a tubular section or hollow cylinder, usually but not necessarily of circular cross-section, used mainly to convey substances which can flow — liquids and gases (fluids), slurries, powders and masses of small solids. In common usage the words pipe and tube are usually interchangeable, but in industry and engineering, the terms are uniquely defined. Depending on the applicable standard to which it is manufactured, pipe is generally specified by a nominal diameter with a constant outside diameter (OD) and a schedule that defines the thickness. Tube is most often specified by the OD and wall thickness, but may be specified by any two of OD, inside diameter (ID), and wall thickness.

### TYPES

- **ERW PIPES (WELDED)** – Electric Resistance Welded

ERW pipe is manufactured by cold forming a flat steel strip into a rounded tube and passing it through a series of forming rollers to obtain a longitudinal seam. The two edges are then simultaneously heated with a high frequency current and squeezed together to produce a bond. All welds are made without the addition of filler metal, except for very large diameters. Standard welded pipe is in nominal lengths of 6.0 or 6.1 metres.

- **SEAMLESS PIPES**

Seamless tubes are as defined – they do not have a welded seam. The tubing is manufactured through an extrusion process where the tube is drawn from a solid stainless steel billet and extruded into a hollow form. Standard seamless pipe is supplied in nominal lengths of 6.1 metres to DN 150 (NPS 6) and above this in random lengths.

### SIZE – NPS & OD

- **NPS or NOMINAL BORE**

Pipe dimensions are specified by outside diameter – indicated by the NPS (imperial) or DN (metric) designator and sometimes confusingly referred to as the ‘nominal bore’ – and wall thickness, reflected in the schedule number. ASME B36.19M covers these dimensions.

**Size -From ¼”NB to 24”NB & Schedule 5S to XXS**

- **OD**

Most often specified by the OD and wall thickness, but may be specified by any two of OD, inside diameter (ID), and wall thickness. OD is generally mentioned in inches and thickness is SWG or BWG.

**Size -From ¼” (6mm) to 10” (254mm) & thickness from 8 to 22 SWG**

### SHAPES

- |            |                |
|------------|----------------|
| 1. Square  | 2. Oval        |
| 3. Slotted | 4. Rectangular |

### FINISH

- |           |               |
|-----------|---------------|
| 1. Polish | 2. Mirror     |
| 3. Matt   | 4. HR finish. |

## 2. SHEET/PLATE (FLAT ROLLED PRODUCTS)

Sheet is metal formed into thin, flat pieces, usually by an industrial process. Sheet metal is one of the fundamental forms used in metalworking, and it can be cut and bent into a variety of shapes. Stainless steel flat rolled products are widely used in various industries due to their exceptional qualities, including high strength, durability, corrosion resistance, and aesthetic appeal.

- |                                     |  |
|-------------------------------------|--|
| ● <b>Width - 1000mm to 2000mm</b>   | <b>FORMS – COILS, SHEETS, PLATES, STRIPS</b>           |
| ● <b>Length - 2500mm to 12000mm</b> | <b>FINISHES – HR, CR, 2B, 2D, BA, No.8, No.1, No.4</b> |
| ● <b>Thickness – 0.6mm to 100mm</b> |  |

### 3. **RODS/BARS**

Rods are long, thin, straight cylindrical objects with a length that is typically greater than their diameter. They can be made from a variety of materials, including steel, aluminium, brass, copper, and titanium. Rods are long, thin and Bars are typically thicker and heavier than rods. Shafts are used to transmit torque or power between two or more components. They are often used in machinery and mechanical systems

**DIA - 5mm to 500mm**

**SHAPES - Available in Round, Square, Hex Shapes**

**TYPES - Available in Black, Bright, Polished**

We provide bars as per your need in both **As Rolled** and **As Annealed conditions**.

### 4. **BUTT-WELD FITTINGS**

Butt-weld fittings are a type of pipe fitting that is used to connect two pipes or tubes of different sizes or thicknesses. They are welded to the pipe ends, hence the name "butt-weld".

We Provide both ERW and Seamless Butt-weld Fittings.

Butt-weld fittings available with us-

- **ELBOWS –**

1. 45° Elbows

2. 90° Elbows

3. Long Radius Elbows

4. Short Radius Elbows

5. Reducing elbows.

Available in Size ½"NB to 24" NB & Schedule 5S to XXS

- **RETURNS –**

1. Long Radius Returns

2. Short Radius Returns.

Available in Size ½"NB to 24" NB & Schedule 5S to XXS

- **CAPS –**

Available in Size ½"NB to 24" NB & Schedule 5S to XXS

- **REDUCERS –**

1. Eccentric Reducers

2. Concentric Reducers

Available in Size ½"NB to 24" NB & Schedule 5S to XXS

- **TEE –**

1. Straight or Equal Tees

2. Reducing or Unequal Tees.

Available in Size ½"NB to 24" NB & Schedule 5S to XXS

- **STUB ENDS –**

1. Long Stub Ends

2. Short Stub Ends

Available in Size ½"NB to 24" NB & Schedule 5S to XXS

### 5. **FLAT BARS**

Flat bars are rectangular-shaped metal bars with a flat surface and sharp edges. They are commonly used in construction, manufacturing, and other industrial applications where a flat surface is needed for supporting or connecting other components.

Available with us in following ranges

**Width - 15mm to 150mm**

**Thickness - 3 mm to 50mm**

**Length- 4.5 Meters to 6.1 Meters**

## 6. **FLANGES**

Flanges are a type of pipe fitting that connect two pipes together or connect a pipe to a valve, pump, or other equipment. They are commonly used in plumbing, oil and gas, chemical processing, and other industries.

Flanges Available with us

### TYPES–

1. Slip on Flanges
2. Blind Flanges
3. Weld Neck Flanges
4. Lap Joint Flanges
5. Socket Weld Flanges
6. Threaded Flanges

### FACINGS–

- |                    |                  |
|--------------------|------------------|
| 1. Flat Face       | 2. Raised Face   |
| 3. Ring type Joint | 4. Male & Female |
| 5. Tongue & Groove | 6. Serrated      |

CLASSES– 150#, 300#, 600#, 900#, 1500#, 2500#, Table D, E, F, H etc. as per Pressure needs

SIZES– Available in Size ½" NB to 24" NB

## 7. **ANGLES**

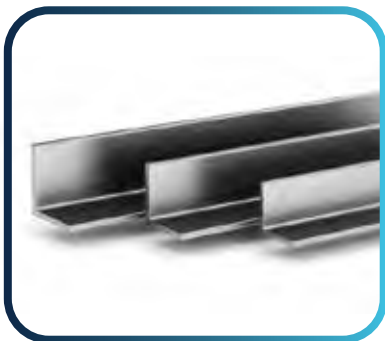
Angles are L-shaped metallic sections formed by bending a flat metal sheet or plate at a right angle along its longitudinal axis, resulting in two equal and perpendicular legs. The angles are often measured by their leg length, thickness, and width.

Available with us in following ranges

**Width - 15mm to 150mm**

**Thickness - 3mm to 12mm**

**Length - 5 to 6.1 Meters**



## 8. ***FASTENERS***

Fasteners are hardware devices that are used to join two or more objects together. They are used in construction, manufacturing, automotive, and aerospace industries. Fasteners can be made from various materials, including steel, stainless steel, aluminium, titanium.

Types–

1. Screws
2. Bolts
3. Studs
4. Nuts
5. Washers

Fasteners available with us

- Hex Bolts
- Carriage Bolts
- U Bolts
- Eye Bolts
- J Bolts
- Flange Bolts
- Allen Bolts
- Plain Washers
- Spring Washers
- Hex Nuts
- Dome Nuts
- Wing Nuts
- Cap Nuts
- Lock Nuts
- Flange Nuts

## 9. ***WIRES/FILLERS WIRES***

Stainless steel wire is a type of metal wire made from stainless steel. It is highly resistant to corrosion, making it a popular choice for a wide range of applications. Filler wire is a type of welding wire that is used to join two pieces of metal together during the welding process. It is called a filler wire because it is used to fill the joint between the two pieces of metal with molten metal that has been melted by the heat of the welding arc.

Available with us in following ranges

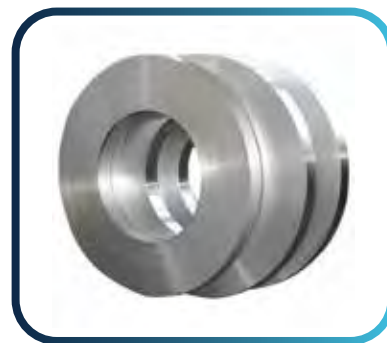
Thickness–

0.1mm to 3.15mm for mesh, weaving, and filtration applications

0.5 mm to 10 mm for spring manufacturing, and other applications

1.6mm to 4 mm for Welding and Filler Wires

In forms of Coils, Spools, Straight lengths



# GRADES WE DEAL IN

JSL DESIGNATION / GRADE	CARBON	%C (MAX)	SILICON	%SI (MAX)	MANGANESE	%Mn (MAX)	PHOSPHORUS	%P (MAX)	SULPHUR	%S (MAX)	CHROMIUM	%Cr (MAX)	MOLYBDENUM	%Mo (MAX)	NIKEL	%Ni (MAX)	NITROGEN	%N (MAX)	Cu-COPPER	N-NITROGEN	Ce-CERIUM	Ti-TITANIUM	Nb(Cb)-NIOBIUM	AL-ALUMINIUM	
J301	0.15		1.00		2.00		0.045		0.03		16.00-18.00				6.00-8.00										
J301L	0.03		1.00		2.00		0.045		0.03		16.00-18.00				6.00-8.00										
J301LN	0.03		1.00		2.00		0.045		0.03		16.00-18.00				6.00-8.00										
J304	0.07		0.75		2.00		0.045		0.03		17.50-19.50				8.00-10.50		0.11								
J304H	0.04-0.10		0.75		2.00		0.045		0.03		18.00-20.00				8.00-10.50										
J304L	0.03		0.75		2.00		0.045		0.03		17.50-19.50				8.00-12.00		0.11								
J304LN	0.03		0.75		2.00		0.045		0.03		18.00-20.00				8.00-12.00										
J30815	0.05-0.10		1.40-2.00		0.80		0.04		0.03		20.00-22.00				10.00-12.00						Ce=0.03-0.08				
309	0.2		1.5 - 2.5		2		0.045		0.015		19.0 - 21.0				11.0 - 13.0		0.11								
J309S	0.08		0.75		2.00		0.045		0.03		22.00-24.00				12.00-15.00		0.11				N=0.11				
J310S	0.08		1.50		2.00		0.045		0.03		24.00-26.00				19.00-22.00		0.11								
J316	0.08		0.75		2.00		0.045		0.03		16.00-18.00		2.00-3.00		10.00-14.00		0.11								
J316L	0.03		0.75		2.00		0.045		0.03		16.00-18.00		2.00-3.00		10.00-14.00		0.11								
J316LN	0.03		0.75		2.00		0.045		0.03		16.00-18.00		2.00-3.00		10.00-14.00		0.12 - 0.22								
J316Ti	0.08		0.75		2.00		0.045		0.03		16.00-18.00		2.00-3.00		10.00-14.00						Ti=5x(C+N) - 0.70				
J317	0.08		0.75		2.00		0.045		0.03		18.00-20.00		3.00-4.00		11.00-15.00										
J317L	0.03		0.75		2.00		0.045		0.03		18.00-20.00		3.00-4.00		11.00-15.00		0.11								
J317LN	0.03		0.75		2.00		0.045		0.03		18.00-20.00		3.00-4.00		11.00-15.00										
J321	0.08		0.75		2.00		0.045		0.03		17.00-19.00				9.00-12.0						Ti=5x(C+N) - 0.70				
J347	0.08		0.75		2.00		0.045		0.03		17.00-19.00				9.00-13.00						Nb=10XC - 1.00				
J904L	0.02		1.00		2.00		0.045		0.035		19.00-23.00		4.00-5.00		23.00-28.00		0.15								
J410	0.08-0.15		1.00		1.00		0.04		0.03		11.50-13.50				0.75 max										
J415	0.05		0.60		0.50-1.00		0.03		0.03		11.50-14.00		0.50-1.00		3.50-5.50										
J420	0.15 min		1.00		1.00		0.04		0.03		12.00-14.00		0.50 max		0.75 max										
J4202	0.26-0.40		1.00		1.00		0.04		0.03		12.00-14.00				0.60										
J420MoV	0.45-0.55		1.00		1.00		0.04		0.015		14.00-15.00		0.50-0.80		-										
J431	0.20		1.00		1.00		0.04		0.03		15.00-17.00				1.25-2.50										
J405	0.08		1.00		1.00		0.04		0.03		11.50-14.50				0.60										
J409	0.03		1.00		1.00		0.04		0.02		10.50-11.70				0.50 max										
J409Ni	0.03		1.00		1.00		0.04		0.03		10.50-11.70				0.50-1.00										
J410S	0.08		1.00		1.00		0.04		0.03		11.50-13.50				0.60 max										
J430	0.12		1.00		1.00		0.04		0.03		16.00-18.00				0.75 max										
J430Ti	0.03		1.00		1.00		0.04		0.03		16.00-19.00				-										
J432	0.025		1.00		1.00		0.04		0.03		17.00-20.00		0.40-0.80		-										
J441	0.03		1.00		1.00		0.04		0.015		17.50-18.50				-										
J446	0.20		1.00		1.50		0.04		0.03		23.00-27.00				0.75										
<b>Ferritic+Martensitic</b>																									
J409M	0.03		1.00		0.8-1.5		0.03		0.03		10.50-12.50				1.50 max										
<b>Other Stainless Steel Grades</b>																									
13-8Mo	0.05		0.1		0.1		0.01		0.008		12.25 - 13.25		2.0 - 2.5		7.50 - 8.50		0.01								
15-5 Ph	0.07		1		1		0.03		0.015		15.0 - 15.5		0.5		3.0 - 5.50										
15-7 Mo	0.09		1		1		0.04		0.03		14.0 - 16.0		2.0 - 3.0		6.50 - 7.75										
17-4Ph	0.07		1		1		0.025		0.025		15.0 - 17.5				3.0 - 5.0										
15-7 Ph	0.1		0.7		1.2		0.04		0.015		14.0 - 16.0		2.0 - 3.0		6.50 - 7.80										
17-7Ph	0.09		0.7		1		0.04		0.015		16.0 - 18.0				6.50 - 7.80										

TRADE NAMES	UNS	INDIAN STANDARD	EN MATERIAL NO.	EN DESIGNATION	JAPAN STANDARDS	DENSITY
301	S30100	X10Cr17Ni7	1.4310	X12CrNi 18-8	SUS301	7.930
301L	S30103	X02Cr17Ni7	-	-	-	7.930
301LN	S30153	X02Cr17Ni7N	1.4318	X2CrNi N18-7	-	7.930
304	S30400	X04Cr19Ni9	1.4301	X5CrNi 18-10	SUS304	7.930
304H	S30409	X07Cr19Ni9	-	-	-	7.930
304L	S30403	X02Cr19Ni10	1.4307	X2CrNi 18-9	SUS304L	7.930
304LN	S30453	X02Cr19Ni10N	1.4311	X2CrNi n18-10	SUS304LN	7.930
30815	S30815	X07Cr21Ni11Ce	1.4835	-	-	8.000
309S	S30908	X04Cr23Ni14	1.4833	X7CRNi 23-14	SUS309S	7.930
310S	S31008	X04Cr25Ni20	1.4845	X12CrNi 25-21	SUS310S	7.930
316	S31600	X04Cr17Ni12Mo2	1.4401	X5CrNi Mo17-12-2	SUS316	8.000
316L	S31603	X02Cr17Ni12Mo2	1.4404	X2CRNi Mo17-13-2	SUS316L	8.000
316LN	S31653	X02Cr17Ni12Mo2N	1.4429	X2CrNi MoN17-3-3	SUS316LN	8.000
316Ti	S31635	X04Cr17Ni12Mo2Ti	1.4571	X6CrNi MoTi 17-12-2	SUS316Ti	8.000
317	S31700	X04Cr19Ni13Mo3	-	-	-	8.000
317L	S31703	X02Cr19Ni13Mo3	1.4438	X2CrNi Mo18-15-4	SUS317L	8.000
317LN	S31753	X02Cr19Ni12Mo3N	-	-	-	8.000
321	S32100	X04Cr18Ni10Ti	1.4541	X6CrNiTi 18-10	SUS321	7.930
347	S34700	X04Cr18Ni10Nb	1.4550	X6CrNi Nb18-10	SUS347	8.000
410	S41000	X12Cr12	1.4006	X12Cr13	SUS410	7.700
415	S41500	X02Cr13Ni4Mn1Mo1	1.4313	X3CrNi Mo13-4	-	7.700
420	S42000	X20Cr13	1.4021	X20cr13	SUS420JI	7.700
420J2	-	X30Cr13	1.4028	-	SUS420J2	7.700
420MoV	-	-	1.4116	-	-	7.700
431	S43100	X15Cr16Ni2	1.4057	X17CrNi 16-2	-	7.700
405	S40500	X04Cr12Al	-	X6CrAl 13	SUS405	7.700
409	S40900	X02Cr12Ti	1.4512	X2CrTi 12	SUH409	7.800
409Ni	S40975	X02Cr12Ni1Ti	1.4003	-	-	7.800
410S	S41008	X04Cr12Al	1.4000	X6Cr-13	SUS410S	7.740
430	S43000	X07Cr17	1.4016	X6Cr17	SUS430	7.620
430Ti	-	X02Cr17TiNb	-	X3CrTi 17	SUS430LX	7.700
432	-	X02Cr18Mo1TiNbZr	-	-	SUS436J1L	7.700
441	S43940	X02Cr19TiNb	1.4509	X2CrTi Nb18	-	7.700
446	S44600	X10Cr25	1.4749	X18Crn28	-	7.600
904L	N08904	X02Cr21Ni25Cu	1.4539	-	-	7.900
13-8Mo	S13800	-	1.4534	X3CrNi MoAl 13-8-2	-	7.800
15-7 Ph	S15700	-	1.4532	X8CrNi MoAl 15-7-2	-	7.800
15-5 Ph	S15500	-	1.4545	X5CrNi Cu15-5	-	7.800
15-7 Mo	S15700	-	1.4574	X7CrNi MoAl 15-7	-	7.800
17-4Ph	S17400	-	1.4542	X5CrNi CuNb17-4-4	-	7.800
17-7Ph	S17700	-	1.4568	X7CrNi Al17-7	-	7.800



# GRADES WE DEAL IN


DESIGNATION / GRADE	CARBON	%C (MAX)	SILICON	%SI (MAX)	MANGANESE	%Mn (MAX)	PHOSPHORUS	%P (MAX)	SULPHUR	%S (MAX)	CHROMIUM	%Cr (MAX)	MOLYBDEUM	%Mo (MAX)	NICKEL	%Ni (MAX)	TITANIUM	%Ti (MAX)	COBALT	%Co (MAX)	IRON=Fe TUNGSTEN=W MANGNESIUM=La ZIRCONIUM=Zr VANADIUM=V NIOBIUM=Nb BORON=B COPPER=Cu NITROGEN=N
INCOLOY A286	0.03-0.08		1.00		1.00-2.00	0.025	0.015	13.5-16.0	1.00-1.50	24.0-27.0	1.90-2.30						1.90-2.30			V=0.10 - 0.50, B=0.003-0.010	
INCOLOY 800	0.12		1.00		2.00	0.03	0.015	19.0-23.0	30.0-34.0	0.15-0.60							0.15-0.60			Ti=0.15-0.60, Al=0.15-0.60	
INCOLOY 825	0.025		0.50		1.00	0.02	0.015	19.5-23.5	2.50-3.50	38.0-46.0	0.60-1.20	1.00					0.60-1.20	1.00		Fe - REST, Al=1.50-3.00, Cu=1.50-3.00	
INCONEL 600	0.05-0.10		0.50		1.00	0.02	0.015	14.0-17.0	72.00	0.30	0.30	1.50					0.30	1.50		Fe-6.00-10.00, B=0.006, Al=0.5, Cu=0.5	
INCONEL 601	0.03-0.10		0.50		1.00	0.02	0.015	21.0-25.0	58.0-63.0	0.50	0.50	1.50					0.50	1.50		Fe-18.0, B=0.006, Al=1.00-1.70, Cu=0.5	
INCONEL 617	0.05-0.10		0.20		0.20	0.01	0.01	20.0-23.0	8.50-10.0	REST	0.20-0.60	11.0-14.0					0.20-0.60	11.0-14.0		Fe-2.00, B=0.006, Al=0.70-1.40, Cu=0.5	
INCONEL 625	0.03-0.10		0.50		0.50	0.02	0.015	20.0-23.0	8.00-10.00	58.00	0.40	1.00					0.40	1.00		Fe-5.00, Nb=3.15-4.45, Al=0.4, Cu=0.5	
INCONEL 718	0.02-0.08		0.35		0.35	0.015	0.015	17.0-21.0	2.80-3.30	50.0-55.0	0.60-1.20	1.00					0.60-1.20	1.00		Fe-REST, Nb=4.70-5.50, B=0.002-0.006, Al=0.30-0.70, Cu=0.3	
INCONEL X-750	0.08		0.50		1.00	0.02	0.015	14.0-17.0	70.00	2.25-2.75	1.00						2.25-2.75	1.00		Fe 5.00-9.00, Nb=0.70-1.20, Al=0.40-1.00, Cu=0.5	
MONEL 400	0.15		0.50		2.00	0.02	0.02		63.00	0.30	0.30						0.30			Fe-1.00-2.50, Al=0.5, Cu=28.0-34.0	
MONEL R405	0.30		0.50		2.00	0.025-0.06			63.00											Cu=28.0-34.0	
MONEL K500	0.20		0.50		1.50	0.015	0.015		63.00	0.30-1.00	0.30-1.00						0.30-1.00			Fe-0.50-2.00, Al=2.20-3.50, Cu=27.0-34.0	
HASTEALLOY C22	0.01		0.08		0.50	0.025	0.015	20.0-22.5	12.5-4.5	Rest	2.50						2.50	2.50		Fe-2.00-6.00, W-2.50-3.50, V=0.35	
HASTEALLOY C276	0.01		0.08		1.00	0.02	0.015	14.5-16.5	15.0-17.0	Rest	2.50						2.50	2.50		Fe-4.00-7.00, W-3.00-4.50, V=0.35, Cu=0.5	
HASTEALLOY B-2	0.01		0.08		1.00	0.025	0.015	1.00	26.0-30.0	Rest	1.00						1.00	1.00		Fe-2.00, Cu=0.5	
HASTEALLOY X	0.05-0.15		1.00		1.00	0.02	0.015	20.5-23.0	8.00-10.00	Rest	0.5-2.5						0.5-2.5			Fe17.0-20.0, W-0.20-1.0, B=0.01, Al=0.5, Cu=0.5	
NICKEL 200	0.10		0.25		0.35	0.005				99.20	0.10						0.10			Fe-0.4, Mg-0.15, Cu=0.25	
NICKEL 201	0.02		0.25		0.35	0.005				99.00	0.10						0.10			Fe-0.4, Mg-0.15, Cu=0.25	
HAYNES 25	0.05-0.15		0.40		2.00	0.02	0.015	19.0-21.0		9.0-11.0	Rest						Rest			Fe=3.00, W=14.0-16.0	
HAYNES 188	0.05-0.15		0.20-0.50		1.25	0.02	0.015	20.0-24.0		20.0-24.0	Rest						Rest			Fe=3.0, W=13.0-16.0, La=0.02-0.12	
RENE 41	0.12		0.50		0.10	0.025	0.015	18.0-20.0	9.0-10.5	Rest	3.0-3.30	10.0-12.0					3.0-3.30	10.0-12.0		Al=1.40-1.60, B=0.003-0.01, Fe=5.0	
CARPENTER 20Cb-3	0.07		1.00		2.00	0.025	0.015	19.0-21.0	2.0-3.0	32.0-38.0	1.50						1.50	1.50		Fe=Rest, Nb=8X, Cu=3.0-4.0	
NIMONIC 75	0.08-0.15		1.00		1.00	0.03	0.02	18.0-21.0		Rest	0.20-0.60	5.00					0.20-0.60	5.00		Fe=5.0, Pb=0.005, Cu=0.5	
NIMONIC 80A	0.04-0.10		1.00		1.00	0.03	0.015	18.0-21.0		Rest	1.80-2.70	2.00					1.80-2.70	2.00		Fe=1.50, B=0.008, Al=1.0-1.8, Cu=0.2	
NIMONIC 90	0.13		1.00		1.00	0.02	0.015	18.0-21.0		Rest	2.0-3.0	15.0-21.0					2.0-3.0	15.0-21.0		Zr=0.15, Fe=1.50, B=0.02, Al=1.0-2.0, Cu=0.2	
NIMONIC C 263	0.04-0.08		0.40		0.60	0.02	0.007	19.0-21.0	5.60-6.10	Rest	1.90-2.40	19.0-21.0					1.90-2.40	19.0-21.0		B=0.005, Al=0.30-0.60, Cu=0.2	
NITRONIC 50	0.03		1.00		4.0-6.0	0.025	0.01	20.0-21.5	3.0-3.5	15.0-17.0	Rest						Rest			Nb=0.25, N=0.20-0.35	
TITANIUM GRADE 1	0.08		-		-	-	-	-	-	-	Rest						Rest			Fe=0.20, O=0.18, H=0.015, N=0.03	
TITANIUM GRADE 2	0.08		-		-	-	-	-	-	-	Rest						Rest			Fe=0.30, O=0.25, H=0.015, N=0.03	
TITANIUM GRADE 4	0.08		-		-	-	-	-	-	-	Rest						Rest			Fe=0.50, O=0.40, H=0.015, N=0.05	
TITANIUM GRADE 5	0.08		-		-	-	-	-	-	-	Rest						Rest			Fe=0.40, O=0.20, H=0.015, V=3.50-4.50, Al=5.50-6.75, N=0.05	
TITANIUM GRADE 7	0.08		-		-	-	-	-	-	-	Rest						Rest			Fe=0.30, O=0.25, H=0.015, Pd=0.12-0.25, V=3.50-4.50, N=0.03	
TITANIUM GRADE 23	0.08		-		-	-	-	-	-	-	Rest						Rest			Fe=0.25, O=0.13, H=0.015, N=0.05	
2205 DUPLEX	0.03		1.00		2.00	0.03	0.02	22.0-23.0	3.0-3.50	4.50-6.50										Al=5.50-6.50	
2304 DUPLEX	0.03		1.00		2.50	0.04	0.03	21.5-24.5	0.05-0.60	3.00-5.50										, Cu=0.10-0.60	
2101 LEAN DUPLEX	0.04		1.00		4.0-6.0	0.04	0.015	21.0-22.0	0.10-0.80	1.35-1.70										Al=0.10-0.80, N=0.20-0.25	
2507 DUPLEX	0.03		1.00		2.00	0.035	0.015	24.0-26.0	3.0-4.5	6.0-8.0										N=0.24-0.35	
ZERON 100	0.03		1.00		1.00	0.035	0.015	24.0-26.0	3.0-4.0	6.0-8.0										W=0.50-1.00, Cu=0.50-1.00, N=0.20-0.30	

TRADE NAMES	UNS	EN DESIGNATION	EN MATERIAL NO.	OTHER BRAND AND TRADE NAMES	DENSITY
INCOLOY A286	S66286	X6NiCrTiMoVB25-15-2	1.4980	INCOLOY ALLOY A-286, PYROMENT ALLOY A286	7.950
INCOLOY 800	N08800	X10CrNiAlTi32-21	1.4876	ALLOY 800, NICROFER 3220H	8.000
INCOLOY 825	N08825	NiCr21Mo	2.4858	ALLOY 825, NICROFER 4221	8.100
INCONEL 600	N06600	NiCr15Fe	2.4816	ALLOY 600, NICROFER 7216H	8.500
INCONEL 601	N06601	NiCr23Fe15	2.4851	ALLOY 601, NICROFER 6023H	8.100
INCONEL 617	N06617	NiCr23Co12Mo	2.4663	ALLOY 617, NICROFER 5520Co	8.400
INCONEL 625	N06625	NiCr22Mo9Nb	2.4856	ALLOY 625, NICROFER 6020	8.500
INCONEL 718	N07718	NiCr19NbMo	2.4668	ALLOY 718, NICROFER 5219Nb	8.200
INCONEL X-750	N07750	NiCr15Fe7TiAl	2.4669	ALLOY X-750, NICROFER 7016TiNb	8.200
MONEL 400	N04400	(S-)NiCu30Fe	2.4360	ALLOY 400, NICORROS ALLOY 400	8.800
MONEL R405	N04405	-	-	ALLOY 405	8.800
MONEL K500	N05500	NiCu30Al	2.4375	ALLOY K-500, NICORROS AL	8.500
HASTEALLOY C22	N06022	NiCr21Mo14W	2.4602	ALLOY C 22, INCONEL ALLOY22, NICROFER 5621hMoW	8.700
HASTEALLOY C276	N10276	NiMo16Cr15W	2.4819	ALLOY C 22, INCONEL ALLOY22, NICROFER 5621hMoW	8.600
HASTEALLOY B-2	N10665	NiMo28	2.4617	ALLOY B-2, NIMOFER 6928	9.200
HASTEALLOY X	N06002	NiCr19Fe19Nb5Mo3	2.4665	ALLOY HX, NICROFER 4722 Co, INCONEL HX	8.200
NICKEL 200	N02200	(s-)Ni99,6	2.4066	ALLOY 200, NICKEL99.2	8.900
NICKEL 201	N02201	LC-Ni99	2.4068	NICKEL LC 99.2	8.900
HAYNES 25	R30605	CoCr20W15Ni	2.4964	ALLOY L-605, CONICRO 5010W	9.100
HAYNES 188	R30188	CoCr22NiW	2.4683	ALLOY 188 CONICRO 4023W	9.100
RENE 41	N07041	NiCr19CoMo	2.4973	ALLOY 41	8.250
CARPENTER 20Cb-3	N08020	NiCr20CuMo	2.4660	ALLOY 20 Cb3, NICROFER 3620 Nb, INCOLOY ALLOY 20	8.100
NIMONIC 75	N06075	NiCr20Ti	2.4630	ALLOY 75	8.400
NIMONIC 80A	N07080	NiCr20TiAl	2.4631	ALLOY 80A	8.200
NIMONIC 90	N07090	NiCr20Co18Ti	2.4632	ALLOY 90	8.200
NIMONIC C 263	N07263	NiCo20Cr20MoT	2.4650	ALLOY C-263, NICROFER 5120 CoTi	8.400
NITRONIC 50	S20910	X2CrNiMnMoNNb21-16-5-3	1.3964	ALLOY 50	7.900
TITANIUM GRADE 1	R50250	-	3.7025	Ti 1	4.500
TITANIUM GRADE 2	R50400	-	3.7035	Ti 2	4.500
TITANIUM GRADE 4	R50700	-	3.7065	Ti 4	4.500
TITANIUM GRADE 5	R56400	-	3.7164/65	Ti 6Al-4V	4.400
TITANIUM GRADE 7	R52400	-	3.7235	Ti 2 Pd	4.500
TITANIUM GRADE 23	R56401	-	3.7165	Ti 6Al-4V(ELI)	4.500
2205 DUPLEX	S32205	X2Cr22Ni6Mo3N	1.4462	ALLOY 2205, SAF2205	7.800
2304 DUPLEX	S32304	X2Cr23Ni4CuN	1.4362	ALLOY 2304, SAF2304	7.800
2101 LEAN DUPLEX	S32101	X2CrMnNiN22-5-2	1.4162	LDX2101	7.700
2507 DUPLEX	S32750	X2CrNiMoN25-7-4	1.4410	ALLOY 2507, SAF2507	7.800
ZERON 100	S32760	X2CrNiMoCuWN25-7-4	1.4501	Zeron 100	7.800

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