

HOUSE OF INDUSTRIAL RAW MATERIAL

World Class Engineering Products



VESSCO
OVERSEAS
An ISO 9001:2015 certified Co.

Specialist in
High Nickel Alloys,
Satinless Steel Fittings & flanges

NEW EXCELLENCE IN MANUFACTURING

COMPANY PROFILE

Many factors combine to achieve the success of a trading business i.e the right product mix, a broad knowledge of products & their application, good business relationships, logistics & financials expertise, proximity to the customer and last but not the least the appropriate range of support service. At **VESCO OVERSEAS**, all these have been combined to create a new dimension.

Formed by a group of young professional VESCO OVERSEAS is one of the leading Stockists, Exporter & Supplier of Stainless Steel, Duplex, Super Duplex, Carbon Steel, Alloy Steel, Nickel Alloys, Aluminum, Copper, Cupro Nickel, Brass, Phosphorus Bronze, Lead, Zinc Monel, Inconel, Hastalloy & other Ferrous and Non Ferrous Metals in form of:

Pipes & Tubes , Line Pipes : In Seamless and Welded in all Grades (IBR & NON IBR), OCTG & Drill Pipes, Buttwelded Pipe Fittings, Socket welded, **Screwed Fittings:** Such as Elbow, Return Bend, Straight and Reducing Tee, Crosses, Lap Joint Stubend, Reducers, Unions, Caps, Bush, Plug, Nipples, Couplings, Thredolets, Weldolets Elbowlets etc.

Flanges & Forging : Such WNRF, SORF, SOFF, BLRF, SWRF, LAP JOINT, WNRTJ, BLRTJ, SPECTACLE BLIND, SPADE etc.

Buttweld Fittings : Such as Elbow, Tee, Reducer, Stubends, Return Bends, Caps, Collar etc.

Long Radius Bends : ½”NB TO 32”NB in 5 mm to 50 mm Thk RADIUS 2.5 D / 3 D / 5D / 10 D UPTO 22D For Pig Launching Steam & General Purpose Fittings.

Plate/Sheet/Coils/Round Bars : CromeMoly (SA387 Gr.11/22/91/5) Nickel & Nickel Alloys/ Mild Steel/ Boiler Quality / Corton/ Hardox/ Dillidur 400v/ Sailma/ Ship Building with class approval etc.

Copper / Cupro Nickel (CuNi) / Brass/ Bronze/ Admiralty brass Products for Ship Building

Fasteners & Gaskets : Such as nuts, bolts, studs, washers etc.

We are approved suppliers to various Govt. Department & public sector all over the country & abroad regularly supplying to them for a long time. We have got ready stock of the above items in various sizes as per National/International standards and specification and the same shall be supplied as per your requirements at very reasonable rates. We can arrange any third party inspection agency like LRS, DNV, GL, ABS, IRS, IBR, TUV, BVQI, RINA, MECON, TCS, etc.

As we are very much interested to do business with you on a long term basis, we request you to please enlist our name in your approved vendor list and send us your valued purchase inquires from time to time so as to enable us to quote our most competitive rates and terms.



Quality, Health & Safety

A rigorous system of quality management is in place to ensure that each manufactured products conforms to International standards of excellence.

Quality assurance is the threshold of all the activities and Stringent Quality Control measures are applied in our in-house facilities for forging, machining and heat treatment processes. We take pride in offering quality products, manufactured in conformance with International standards.

Third Party Inspection



FLANGES



We are engaged in manufacturing and exporting wide range of Flanges that are available in variables sizes for different applications in waterworks, petrochemicals, refineries, chemical industry and construction works. Owing to its high quality, optimum performance, less maintenance, our range of flanges is appreciated by our clients and is available in various material configurations like stainless steel, carbon steel, alloy steel, nickel alloys and copper alloys. Based on the sizes, dimensions, shapes and lenth of these flanges, we can customize the products as per our respected clients requirement.

Types

Blind
Deck Flange
Lap Joint
Long Weldneck
Oriface
Ring Joint

RTJ
Slip - On
SORF
Socket Weld
Spectacle Blind
Weldneck



- Duplex & Super Duplex** : UNS S31803, UNS S32750, UNS S32760,
- Hastelloy Alloy** : ASTM B564 Hastelloy B2, C276, C22
- Incoloy Alloys** : ASTM B564 Alloy 20, Alloy A286
Alloy 800H/800HT, Alloy 825,
- Inconel Alloys** : ASTM B564 Alloy 600, Alloy 601, Alloy 625, Alloy 718, Alloy 725,
- Monel Alloys** : ASTM B564 Monel 400, Monel K500.
- Copper Brass** : CuNi90 : 10 & 70 : 30
- Stainless Steel** : ASTM A182, F304,304L,304H,316, 316L,317,317L,321,310,347,904L
- Carbon Steel** : ASTM A105,A694 F42,A350 LF2
- Alloy Steel** : ASTM A182 F1,F5,F9,F11,F22,F91
- Size** : 1/2" NB TO 72" NB
- Class** : 150#, 300#, 600#, 900#, 1500# & 2500#.
- Standard**
- ANSI Flanges** : 150#, 300#, 600#, 900#, 1500# & 2500#.
- AWWA** : Class 2B, 2D, 4E, 5E, 6E
- DIN** : PN6, PN10, PN16, PN25, PN40
- JIS** : 5K, 10K
- BS** : Table D, E, F.

BUTTWELD FITTINGS

- Duplex & Super Duplex** : UNS S31803, UNS S32750, UNS S32760
- Hastelloy Alloy** : ASTM B366 Hastelloy B2, Hastelloy C276 Hastelloy C22
- Incoloy Alloys** : ASTM B366 Alloy 20, Alloy 800H/800HT, Alloy 825, Alloy A286
- Inconel Alloys** : ASTM B366 Alloy 600, Alloy 601, Alloy 625, Alloy 718, Alloy 725,
- Monel Alloys** : ASTM B366 Monel 400, Monel K500.
- Copper Brass** : CuNi 90 : 10 & 70 : 30
- Stainless Steel** : ASTM A403, WP304,304L,304H,316, 316L,317,317L,321,310,347,904L
- Carbon Steel** : ASTM A234 WPB,A420 WPL3,A420 WPL6, MSS-SP-75 WPHY 42/46/52
- Alloy Steel** : ASTM A234WP1,WP5,WP9,WP11,WP22
- Size** : 1/4" NB TO 24" NB (seamless)
4" NB TO 72" NB (welded)
- Wall Thickness** : Sch. 5s To Sch. XXS



TYPE OF BUTTWELD FITTINGS

- TEE (EQUAL /UNEQUAL)
- ELBOW (1D/1.5D/3D/5D)
- REDUCING TEE
- LONG STUB BEND
- SHORT STUB BEND
- REDUCER
- RETURN BENDS (CONCENTRIC/ECCENTRIC)
- CAP
- MITER BENDS

FORGED FITTINGS

We offer to our clients specially designed forged pipe fittings. We also undertake new projects as per the drawings and specifications of the clients for forged fittings. The product is delivered in a short time frame. We offer special forged pipes fittings in different metals which find application in various industries. We can offer forged fittings in following materials of construction :-

- Nickel Alloy & Copper Nickel Alloy
- Stainless Steel & Duplex Steel
- Carbon Steel & Alloy Steel

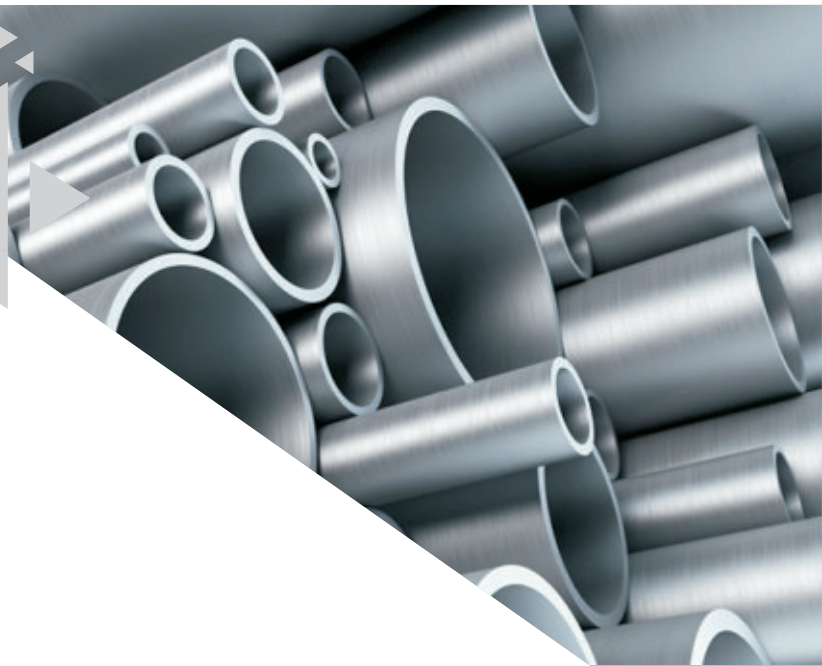
TYPE

- ELBOW
- HEXAGON NIPPLE
- ADAPTER
- TEE
- BARREL NIPPLE
- INSERT
- UNION
- WELDING NIPPLE
- WELDLET
- CROSS
- PARRALER NIPPLE
- ELBOWLET
- COUP BUSHING
- STREET ELBOW
- SOCKOLET
- PLUG
- HEXAGON NUT
- THREDOLET
- SWAGE NIPPLE
- HOSE NIPPLE
- NIPOLET
- WELDING BOSS
- BEND
- LETROLET, ETC.

- High Nickel** : Monel, Nickel, Inconel, Hastelloy
- Stainless Steel** : ASTM A182, F304,304L,304H,316, 316L,317,317L,321,310,347,904L
- Carbon Steel** : ASTM A105,A694 F42,A350 LF2
- Alloy Steel** : ASTM A182 F1,F5,F9,F11,F22,F91
- Size** : 1/4" NB TO 4" NB
- Class** : 2000#, 3000#, 6000#, 9000#



PIPES & TUBES



Stainless Steel : ASTM / ASME SA 312Gr. TP 304, 304L, 304H, 309S, 309H, 310, 310H, 316, 316Ti, 316H, 316LN, 317, 317L, 321, 321H, 347, 347H, 904L

Duplex Steel : ASTM / ASME SA 790 UNS No.: 31803 / 32760

Carbon Steel : ASTM / ASME A53 Gr. A&B, ASTM A 106 Gr. A,B & C. API 5L Gr. B, API 5L X42, X46, X52, X60, X65 & X70. ASTM / ASME A691 Gr. A,B &C

Alloy Steel : ASTM / ASME A 335 Gr. P1, P5, P9, P11, P12, P22, P23, P91

Cupro Nickel : 70 : 30 & 90 : 10

Aluminium Alloys : 2014, 2024, 5052, 5083, 5086, 6061, 6063, 6082, 6351, 7075

Nickel Alloys :

ASTM / ASME SB 161/B725/B730 UNS 2200 (Nickel. 200 & 201)

ASTM / ASME SB 165/B725/B730 UNS 4400 (Monel 400 & 500)

ASTM / ASME SB 729/B464/B468 UNS 8020 (Alloy 20/20 CB 3)

ASTM / ASME SB 423/B705/B704 UNS 8825 (Inconel 825)

ASTM / ASME SB 167/B517/B516 UNS 6600 (Inconel 600)

ASTM / ASME SB 444/B705/B704 UNS 6625 (Inconel 625)

ASTM / ASME SB 622/B619/B622 UNS 10276 (Hastelloy C276)

Types : Round, Square, rectangle

Size : 3/8" NB to 24" NB (seamless) / 1/2" to 72" welded

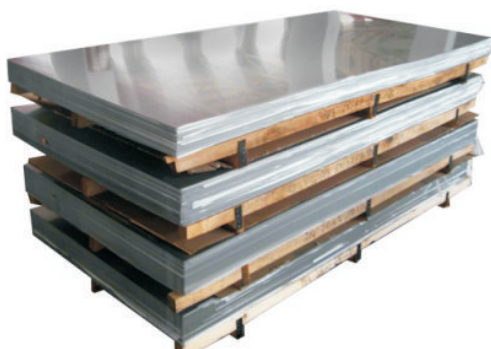
Wall Thickness : Sch. 5s to Sch. XXS

We are one of the most trusted Stockiest for offering finest range of Stainless Steel, Duplex Steel, Carbon & Alloy Steel Pipes & Tubes. Used in different industries for diverse applications, these pipes can be available in standard as well as customized dimensions as per the requirement. These pipes are appreciated for their sturdy and precise construction. We are known for offering our product range at reasonable prices and delivering within given time frame.

SHEETS/PLATES/COILS

We have been offering to our clients a vast range Sheets and Coils, that are offered in various specifications to our clients. Catering to the requirements of various industries, our range is known for its corrosion resistance, durability & high tensile strength.

Our clients can avail from us Plates that are manufactured using high grade stainless steel. These cater to the requirements of various industries and are known for their attributes, such as high tensile strength, corrosion resistance & long life usage.



Stainless Steel : Plates as per ASTM A240, Gr. TP 304, 304L, 304LN, 309, 309S, 309H, 310H, 316, 316L, 316H, 316LN, 316Ti, 317, 317L, 321, 321H, 347, 347H, 409, 410, 420, 430 etc.

Nickel Alloy

ASTM / ASME SB 162 UNS 2200 (NICKEL 200), ASTM / ASME SB 162 UNS 2201 (NICKEL 201), ASTM / ASME SB 127 UNS 4400 (MONEL 400), ASTM / ASME SB 463 UNS 8020 (ALLOY20 / 20 CB 3), ASTM / ASME SB 424 UNS 8825 (INCONEL 825), ASTM / ASME SB 168 UNS 6600 (INCONEL 600), ASTM / ASME SB 409 UNS 8810/8811 (INCONEL 800/800HT), ASTM / ASME SB 443 UNS 6625 (INCONEL 625), ASTM / ASME SB 575 UNS 10276 (HASTELLOY C276)

Carbon Steel / Boiler Quality Plates : As per IS 2062 / ASTM A36, Gr.A, B & C, IS 2002 Gr. 1 & 2 ASTM A516 Gr. 60 & 70

Alloy Steel Plates : As per ASTM A387 Gr. 2, 9, 11, 12 & 22 in class 1 & 2 ASTM A204 Gr A & B, DIN 17175 Gr. 15Mo3 & 16Mo3 WITH IBR Test Certificate.

Aluminium Alloys : 2014, 2024, 5052, 5083, 5086, 6061, 6063, 6082, 6351, 7075

Range : 0.5 mm To 200 mm thick in 1000 mm To 3000 mm width & 2500 mm To 12500 mm Length available with NACE MR 01-75

Chemical composition of Stainless Steel

| Grade Designation AISI | C Max | Mn Max | P Max | S Max | SI Max | CR | NI | MO |
|------------------------|-----------|------------|-------|-----------|--------------|-------------|-------------|-----------|
| 201 | 0.15 | 5.50/7.50 | 0.060 | 0.030 | 1.00 | 16.00/18.00 | 3.50/5.50 | - |
| 202 | 0.15 | 7.50/10.00 | 0.060 | 0.030 | 1.00 | 17.00/19.00 | 4.00/6.00 | - |
| 301 | 0.15 | 2.00 | 0.045 | 0.040 | 1.00 | 16.00/18.00 | 6.00/8.00 | - |
| 302 | 0.15 | 2.00 | 0.045 | 0.030 | 1.0 | 17.00/19.00 | 8.00/10.00 | - |
| 303 | 0.15 | 2.00 | 0.20 | 0.15(min) | 1.00 | 17.00/19.00 | 8.00/10.00 | 0.60 |
| 304 | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 18.00/20.00 | 8.00/10.50 | - |
| 304L | 0.030 | 2.00 | 0.045 | 0.030 | 1.00 | 18.00/20.00 | 8.00/12.00 | - |
| 308 | 0.08 | 2.00 | 0.040 | 0.030 | 1.00 | 19.00/21.0 | 10.00/12.00 | - |
| 309 | 0.20 | 2.00 | 0.045 | 0.030 | 1.00 | 22.00/24.00 | 12.00/15.00 | - |
| 309S | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 22.00/24.00 | 12.00/15.00 | - |
| 310 | 0.25 | 2.00 | 0.045 | 0.030 | 1.50 | 24.00/26 | 19.00/22.00 | - |
| 310S | 0.08 | 2.00 | 0.045 | 0.030 | 1.50 | 24.00/26.00 | 19.00/22.00 | - |
| 314 | 0.25 | 2.00 | 0.045 | 0.030 | 1.50 to 3.00 | 23.00/26.00 | 19.00/22.00 | - |
| 316 | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 16.00/18.00 | 10.00/14.00 | 2.00/3.00 |
| 316l | 0.030 | 2.00 | 0.045 | 0.030 | 1.00 | 16.00/18.00 | 10.00/14.00 | 2.00/3.00 |
| 317 | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 18.00/20.00 | 11.00/15.00 | 3.00/4.00 |
| 317L | 0.030 | 2.00 | 0.045 | 0.030 | 1.00 | 18.00/20.00 | 11.00/15.00 | 3.00/4.00 |
| 316Ti | 0.080 | 2.00 | 0.045 | 0.030 | 1.00 | 16.00/18.00 | 10.00/14.00 | 2.00/3.00 |
| 321 | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 17.00/19.00 | 9.00/12.00 | - |
| 347 | 0.08 | 2.00 | 0.045 | 0.030 | 1.00 | 17.00/19.00 | 9.00/12.00 | - |
| 430 | 0.12 | 1.00 | 0.040 | 0.030 | 1.00 | 16.00/18.00 | 0.75 | - |
| 446 | 0.20 | 1.50 | 0.040 | 0.030 | 1.00 | 23.00/27.00 | 0.75 | - |
| 403 | 0.15 | 1.00 | 0.040 | 0.030 | 0.50 | 11.50/13.00 | - | - |
| 410 | 0.15 | 1.00 | 0.040 | 0.030 | 1.00 | 11.50/13.50 | - | - |
| 410S | 0.08 | 1.00 | 0.040 | 0.030 | 1.00 | 11.50/13.50 | 0.60Max | - |
| 420 | 0.15(min) | 1.00 | 0.040 | 0.030 | 1.00 | 12.00/14.00 | - | - |
| 431 | 0.20 | 1.00 | 0.040 | 0.030 | 1.00 | 15.00/17.00 | 1.25-2.50 | - |
| 440A | 0.60/0.75 | 1.00 | 0.040 | 0.030 | 1.00 | 16.00/18.00 | - | 0.75 Max |
| 440B | 0.75/0.95 | 1.00 | 0.040 | 0.030 | 1.00 | 16.00/18.00 | - | 0.75 Max |
| 440C | 0.95/1.20 | 1.00 | 0.040 | 0.030 | 1.00 | 16.00/18.00 | - | 0.75 Max |
| 446 | 0.20 | 1.50 | 0.040 | 0.030 | 1.00 | 23.00/27.00 | 0.75 | - |

Stainless Steel Pipe Dimension chart

| Nominal Pipe size | | Outside Diameter | Schedule 5S | | Schedule 10S | | Schedule 20S | | Schedule 40S | | Schedule 80S | | Schedule 160S | | Schedule XXS | |
|-------------------|-------|------------------|-------------|-------|--------------|-------|--------------|--------|--------------|--------|--------------|-------|---------------|--------|--------------|--------|
| MM | INCH | MM | W.T. | KG/M | W.T. | KG/M | W.T. | KG/M | W.T. | KG/M | W.T. | KG/M | W.T. | KG/M | W.T. | KG/M |
| 3 | 1/8 | 10.3 | 1.2 | 0.26 | 1.24 | 0.28 | 1.5 | 0.33 | 1.73 | 0.37 | 2.41 | 0.47 | - | - | - | - |
| 6 | 1/4 | 13.7 | 1.2 | 0.37 | 1.65 | 0.49 | 2.00 | 0.58 | 2.24 | 0.630 | 3.02 | 0.80 | - | - | - | - |
| 10 | 3/8 | 17.1 | 1.2 | 0.47 | 1.65 | 0.63 | 2.00 | 0.74 | 2.31 | 0.840 | 3.20 | 1.10 | - | - | - | - |
| 15 | 1/2 | 21.3 | 1.65 | 0.80 | 2.11 | 1.00 | 2.30 | 1.07 | 2.77 | 1.27 | 3.73 | 1.62 | 4.78 | 1.94 | 7.47 | 2.55 |
| 20 | 3/4 | 26.7 | 1.65 | 1.02 | 2.11 | 1.28 | 2.55 | 1.52 | 2.87 | 1.69 | 3.91 | 2.20 | 5.56 | 2.90 | 7.82 | 3.64 |
| 25 | 1 | 33.4 | 1.65 | 1.30 | 2.77 | 2.09 | 2.55 | 1.94 | 3.38 | 2.50 | 4.55 | 3.24 | 6.35 | 4.24 | 9.09 | 5.45 |
| 32 | 1.1/4 | 42.2 | 1.65 | 1.65 | 2.77 | 2.70 | 3.00 | 2.90 | 3.56 | 3.39 | 4.85 | 4.47 | 6.35 | 5.61 | 9.70 | 7.77 |
| 40 | 1.1/2 | 48.3 | 1.65 | 1.90 | 2.77 | 3.11 | 3.00 | 3.35 | 3.68 | 4.05 | 5.08 | 5.41 | 7.14 | 7.25 | 10.15 | 9.55 |
| 50 | 2 | 60.3 | 1.65 | 2.39 | 2.77 | 3.93 | 3.00 | 4.24 | 3.91 | 5.44 | 5.54 | 7.48 | 8.74 | 11.11 | 11.07 | 13.44 |
| 65 | 2.1/2 | 73.0 | 2.11 | 3.69 | 3.05 | 5.26 | 4.00 | 6.81 | 5.16 | 8.63 | 7.01 | 11.41 | 9.53 | 14.91 | 14.02 | 20.39 |
| 80 | 3 | 88.9 | 2.11 | 4.51 | 3.05 | 6.45 | 4.00 | 8.37 | 5.49 | 11.29 | 7.62 | 15.27 | 11.1 | 21.30 | 15.24 | 27.68 |
| 100 | 4 | 114.3 | 2.11 | 5.84 | 3.05 | 8.36 | 4.50 | 12.18 | 6.02 | 16.07 | 8.56 | 22.32 | 13.49 | 33.54 | 17.12 | 41.03 |
| 125 | 5 | 141.3 | 2.77 | 9.47 | 3.40 | 11.57 | 5.00 | 16.80 | 6.55 | 21.8 | 9.53 | 30.97 | 15.88 | 49.11 | 19.05 | 57.43 |
| 150 | 6 | 168.3 | 2.77 | 11.32 | 3.40 | 13.82 | 6.35 | 25.36 | 7.11 | 28.26 | 10.97 | 42.56 | 18.25 | 67.53 | 21.95 | 79.22 |
| 200 | 8 | 219.1 | 2.77 | 14.78 | 3.76 | 19.96 | 6.35 | 33.31 | 8.18 | 42.55 | 12.7 | 64.64 | 23.01 | 111.27 | 22.23 | 107.92 |
| 250 | 10 | 273.1 | 3.40 | 22.61 | 4.19 | 27.78 | 6.35 | 41.77 | 9.27 | 60.31 | 12.7 | 81.55 | 28.58 | 172.33 | 25.40 | 155.15 |
| 300 | 12 | 323.8 | 3.96 | 31.24 | 4.57 | 36.00 | 6.35 | 49.7 | 9.53 | 73.85 | 12.7 | 97.43 | 33.32 | 238.68 | 25.40 | 186.90 |
| 350 | 14 | 355.6 | 3.96 | 34.34 | 4.78 | 41.30 | 7.92 | 67.90 | 11.13 | 94.54 | | | | | | |
| 400 | 16 | 406.4 | 4.19 | 41.56 | 4.78 | 47.34 | 7.92 | 77.82 | 12.7 | 123.30 | | | | | | |
| 450 | 18 | 457.2 | 4.19 | 46.81 | 4.78 | 53.32 | 7.92 | 87.74 | 14.27 | 155.86 | | | | | | |
| 500 | 20 | 508.0 | 4.78 | 59.31 | 5.54 | 68.64 | 9.53 | 117.14 | 15.09 | 183.42 | | | | | | |
| 600 | 24 | 610.0 | 5.54 | 82.57 | 6.35 | 94.52 | 9.53 | 141.11 | 17.48 | 255.41 | | | | | | |

All Dimensions in millimeters. W.T. = Wall Thickness. KG/M = Kilograms per Meter.

TECHNICAL INFO OF NICKEL BASED ALLOYS

| U.S.A. / GROSSBRITANNIE U.S.A. / GRANDE-BRETAGNE U.S.A. / GREAT BRITAN | | | | | | | | | | | | | |
|--|-------|----------------------|-----------|-----------|-----------|------|---------|---------|----------|--------------|------|----------|--------------------------|
| Analyses | | Analysis Composition | | | | | | | | | | | |
| Handelsbezeichnung Designation Commercial Commercial designation | C% | Co% | Cr% | Mo% | Ni% | V% | W% | Ai% | Cu% | Nb/Cb Ta% | Ti% | Fe% | Sonstige Autres -Other % |
| Monel 400 | 0.12 | - | - | - | 65.0 | - | - | - | 32.0 | - | - | 1.5 | Mn 1. |
| Monel 401 | 0.10 | - | - | - | 43.0 | - | - | - | 53.0 | - | - | 0.75 | Si 0.25;Mn z25 |
| Monel 404 | 0.15 | - | - | - | 52.0-57.0 | - | - | 0.05 | rest/bal | - | - | 0.50 | Mn 0.10; Si 0.10;So.024 |
| Monel 502 | 0.10 | - | - | - | 63.0-17.0 | - | - | 2.5-3.5 | rest/bal | - | 0.50 | 2.0 | Mn 1.5;Si:So.010 |
| Monel k 500 | 0.13 | - | - | - | 64.0 | - | - | 2.8 | 30.0 | - | 0.60 | 1.0 | Mn 0.8 |
| Monel B | 0.10 | 1.25 | 0.60 | 28.0 | rest/bal | 0.30 | - | - | 31.0 | - | - | 1.2 | Mn1.0;So,0.04 |
| Hastelloy B2 | 0.02 | 1.0 | 1.0 | 26.0-30.0 | rest/bal | - | - | - | - | - | - | 2.0 | Mn1.0;Si 0.10 |
| Hastelloy C | 0.07 | 1.25 | 16.0 | 17.0 | rest/bal | 0.30 | 40 | - | - | - | - | 5.75 | Mn 1.0;Si 0.70 |
| Hadselloy C4 | 0.015 | 2.0 | 14.0-17.0 | 14.0-17.0 | rest/bal | - | - | - | - | - | 0.70 | 3.0 | Mn1.0;Si 0.70 |
| Hastelloy C276 | 0.02 | 2.5 | 14.0-16.5 | 15.0-17.0 | rest/bal | 0.35 | 3.0-4.5 | - | - | - | - | 4.0-7.0 | Mn 1.0;Si 0.05 |
| Incoloy 800 | 0.04 | - | 21.0 | - | 32.0 | - | - | 0.3 | - | - | 0.4 | 45.0 | - |
| Incoloy 801 | 0.05 | - | 20.5 | - | 32.0 | - | - | - | - | - | 1.1 | 45.0 | - |
| Incoloy 802 | 0.35 | - | 21.0 | - | 32.0 | - | - | 0.6 | - | - | 0.7 | 45.0 | - |
| Incoloy 804 | 0.05 | - | 29.5 | - | 41.0 | - | - | 0.3 | - | - | 0.6 | 25.4 | - |
| Incoloy 805 | 0.12 | - | 7.5 | 0.50 | 36.0 | - | - | - | 0.10 | - | - | rest/bal | Mn 0.60;Si 0.50 |
| Incoloy 810 | 0.25 | - | 21.0 | - | 32.0 | - | - | - | 0.50 | - | - | rest/bal | Mn 0.90; Si 0.80 |
| Incoloy 825 | 0.04 | - | 21.0 | 3.0 | 42.0 | - | - | - | 2.0 | - | 1.0 | 30.0 | - |
| Incoloy 901 | 0.05 | - | 12.5 | 6.0 | rest/bal | - | - | - | - | - | 2.9 | 34.0 | Mn 0.24;0.12;0.015 |
| Incoloy 903 | 0.02 | 15.0 | - | - | 38.0 | - | - | 0.7 | - | Nb 3.0 | 1.4 | 41.0 | - |
| Incoloy 904 | 0.02 | 14.0 | - | - | 33.0 | - | - | - | - | - | 1.7 | 50.0 | - |
| Incoloy 600 | 0.05 | - | 15.5 | - | 75.0 | - | - | - | - | - | - | 8.0 | - |
| Incoloy 601 | 0.05 | - | 23.0 | - | 60 | - | - | 1.4 | - | - | - | 14.0 | - |
| Incoloy 610 | 0.20 | - | 15.5 | - | rest/bal | - | - | - | 0.50 | Nb 1.0 | - | 9.0 | Mn0.90;Si 2.0 |
| Incoloy 617 | 0.07 | 12.5 | 22.5 | 9.0 | 54.0 | - | - | 1.0 | - | - | - | - | - |
| Incoloy 625 | 0.05 | - | 21.5 | 9.0 | 61.0 | - | - | 0.60 | - | Nb 3.65 | 0.60 | 2.5 | Mn 0.5;Si 0.50 |
| Incoloy671 | 0.07 | 12.5 | 22.5 | 9.0 | 51.0 | - | - | - | - | - | 0.35 | - | - |
| Incoloy 700 | 0.12 | 28.5 | 15.0 | 3.75 | 46.0 | - | - | 3.0 | 0.05 | - | 2.20 | 0.70 | Mn 0.10;Si 0.30 |
| Incoloy 702 | 0.04 | - | 15.6 | - | rest/bal | - | - | 3.4 | 0.10 | - | 0.70 | 0.35 | Mn 0.05; Si 0.20 |
| Incoloy 705 | 0.30 | - | 15.5 | - | rest/bal | - | - | - | 0.50 | - | - | 8.0 | Mn 0.90; Si 5.5 |

CHEMICAL COMPOSITION OF TITANIUM / NICKEL BASE ALLOYS

| Grade | UNS Designation | C % Max | Mn % Max | P % Max | S % Max | Si% - | Ni % | Co % | Cu % | Ag% | Fe % | Pb % | Zn % Max | N % | Ti % Max | H % Max | O % |
|----------------|-----------------|------------|-------------|------------|------------|----------|-----------|-----------|-----------|-----|----------|------|-------------|-----|-------------|------------|------|
| 70/30 Cu-Nu | C 71500 | 0.05 | 1.0 | 0.02 | 0.02 | - | 29.0-33.0 | - | - | - | 0.40-1.0 | 0.02 | 0.50 | - | - | - | - |
| 90/10 Cu-Ni | C 70600 | 0.05 | 1.0 | 0.02 | 0.02 | - | 9.0-11.0 | - | - | - | 1.0-1.8 | 0.02 | 0.50 | - | - | - | - |
| Titanium Gr. 2 | R 50400 | 0.08 | 0.03 | - | - | - | - | - | - | - | 0.30 | - | - | - | - | - | 0.25 |
| Titanium Gr. 1 | R 50250 | 0.08 | 0.03 | - | - | - | - | - | - | - | 0.20 | - | - | - | - | 0.015 | 0.18 |
| Type 17-4PH | - | 0.07 | 1.00 | 0.04 | 0.03 | 1.00 | 3.00-5.00 | 3.00-5.00 | 0.15-0.45 | - | - | - | - | - | - | - | - |
| Nickel 200 | 2200 | 0.15 | 0.35 | - | 0.01 | 0.35 | 99.0 | - | - | - | 0.40 | - | - | - | - | - | - |
| Nickel 201 | 2201 | - | 0.35 | - | 0.01 | 0.35 | 99.0 | - | 0.25 | - | 0.40 | - | - | - | - | - | - |

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