



MARON

S T E E L S U P P L I E S



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WE SPECIALIZE IN SHORT DELIVERY TIMES!

Maron Steel Supplies was established on 1-8-2003. We are a professional supplier serving the (Petro) Chemical, Gas, Oil, Power, Marine and other heavy industries.

We are familiar with the circumstances surrounding the troubled markets as well as the impact it has on the investments and changed demands from the end-users. Our goal therefore is to adapt ourselves and become one with our clients in order to give the best service required.

We have the ability to supply full package deals by combining all kind of different products and materials.

Our well established position with mainly European, American, Japanese, South Korean and Chinese first-class manufacturers and stockholders will enable us to meet very competitive conditions which are required in full demand by our clients.

Maron Steel Supplies is also highly experienced in supplying materials for shutdown projects. Experts on the jobs will agree that the requirements for special sizes, special materials and fast delivery times are the biggest challenges.

Maron Steel Supplies is your contact when you are looking to add a reliable partner to your supplier list.



We do have the ability to supply full package deals for all kind of different materials and products.



Products and Materials

Pipes

Available in random and fix lengths *We also do Studded & Finned pipes*

(S)A335 P5, P9, P11, P22, P91
 (S)A312 TP304H, TP316H, TP317L, TP321H, TP347H, TP904L
 Hastelloy C276 / UNS N10276, Monel 400 / UNS N04400
 Alloy 600 / UNS N06600, Alloy 625 / UNS N06625, Alloy 800 / UNS N08800, (H) N08810/ (HT) N08811
 Alloy 825 / UNS N08825

Flanges

WNRF, BLRF, SORF, Orifice, RTJ, Spectacle Blind

(S)A182 F5, F9, F11, F22, F91
 (S)A182 F304H, F316H, F317L, F321H, F347H, F904L
 Hastelloy C276 / UNS N10276, Monel 400 / UNS N04400
 Alloy 600 / UNS N06600, Alloy 625 / UNS N06625, Alloy 800 / UNS N08800, (H) N08810/ (HT) N08811
 Alloy 825 / UNS N08825

Tubes

Available in random and fix lengths

(S)A213 T5, T9, T11, T12, T22, T91
 (S)B111 C70600, C71500, C68700, C44300
 Hastelloy C276 / UNS N10276, Monel 400 / UNS N04400
 Alloy 600 / UNS N06600, Alloy 625 / UNS N06625, Alloy 800 / UNS N08800, (H) N08810/ (HT) N08811
 Alloy 825 / UNS N08825

Plates

Also available in cut sizes

(S)A387 Grade 5, 9, 11, 22, 91
 (S)A240 TP304H, TP316H, TP321H, TP347H, TP310S, TP410S, TP904L
 Hastelloy C276 / UNS N10276, Monel 400 / UNS N04400
 Alloy 600 / UNS N06600, Alloy 625 / UNS N06625, Alloy 800 / UNS N08800, (H) N08810/ (HT) N08811
 Alloy 825 / UNS N08825

Fittings

Elbows 45°LR, 90°LR, 90°SR, 180°LR and 180°SR / Tees / Reducers / Caps

(S)A234 WP5, WP9, WP11, WP22, WP91
 (S)A403 WP304H, WP316H, WP317L, WP321H, WP347H, WP904L
 Hastelloy C276 / UNS N10276, Monel 400 / UNS N04400,
 Alloy 600 / UNS N06600, Alloy 625 / UNS N06625, Alloy 800 / UNS N08800, (H) N08810/ (HT) N08811
 Alloy 825 / UNS N08825

Valves

Gate, Globe, Check and Ball valves Raised Face, RTJ, NPT, SW, Butt Weld

(S)A182 F11, F5, F22, (S)A105, (S)A350 LF2, ASTM A182 F316L, F304L, F304H, F316H, F321H, F347H, F904L
 Duplex F51, Hastelloy C276 / UNS N10276, Monel 400 / UNS N04400
 Alloy 600 / UNS N06600, Alloy 625 / UNS N06625, Alloy 800 / UNS N08800, (H) N08810/ (HT) N08811
 Alloy 825 / UNS N08825



| Material | WNR / DIN | UNS | BW Fittings | Pipes | Forgings | Plates | Chemical Analysis | | | | | | Yield Strength Min. | | Tensile Strength Min. | | Elongation |
|---------------------|---------------|--------|-------------|---------------|----------|-----------|-------------------|--------------|-------------|-------------|-------------|------------------------------|---------------------|-----|-----------------------|--------|------------|
| | | | | | | | Carbon | Chrome | Ni | Mo | Nitrogen | Others | Mpa | KSI | Mpa | KSI | El - A % |
| Gr.1 | | | A420 | A333 / A672 | A350 | | 0,30 max | | | | | | 205 | 30 | 380 | 55 | 25 |
| Gr.3 | | | A420 | A333 / A672 | A350 | | 0,19 max | | 3,18-3,82 | | | | 240 | 35 | 450 | 65 | 20 |
| Gr.6 | | | A420 | A333 / A672 | A350 | | 0,30 max | | | | | | 240 | 35 | 415 | 60 | 16,5 |
| Gr.B | | | A234 | A106 / API 5L | A105 | A516 | 0,30 max | 0,40 max | 0,40 max | 0,15 max | | | 240 | 35 | 415-655 | 60-95 | 22 |
| Gr.C | | | A234 | A106 | A105 | A516 | 0,35 max | 0,40 max | 0,40 max | 0,15 max | | | 275 | 40 | 485-655 | 70-95 | 22 |
| Gr.52 | | | A860 | API 5L | A694 | API 5L | 0,31 max | | | | | | 360 | 52 | 455 | 66 | 25 |
| Gr.60 | | | A860 | API 5L | A694 | API 5L | 0,26 max | | | | | | 415 | 60 | 515 | 75 | 20 |
| Gr.65 | | | A860 | API 5L | A694 | API 5L | 0,16 max | | | | | | 450 | 65 | 530 | 77 | 20 |
| Gr.70 | | | A860 | API 5L | A694 | API 5L | 0,23 max | | | | | | 485 | 70 | 550 | 80 | 20 |
| 1 CROMO (P1) | 15M03 | K11522 | A234 | A335 / A691 | A182 | A387 | 0,28 max | | | 0,44 - 0,65 | | | 205 | 30 | 380-550 | 55-80 | 20 |
| 1 1/4 CROMO (P11) | 13CrMo44 | K11597 | A234 | A335 / A691 | A182 | A387 | 0,05 - 0,15 | 1,00 - 1,50 | | 0,44 - 0,65 | | | 205 | 30 | 415-585 | 60-85 | 20 |
| P12 CROMO (P12) | 13CrMo45 | K11562 | A234 | A335 / A691 | A182 | A387 | 0,05 - 0,15 | 0,80 - 1,25 | | 0,44 - 0,65 | | | 220 | 32 | 485-655 | 70-95 | 20 |
| 2 1/4 CROMO (P22) | 10CrMo9.10 | K21590 | A234 | A335 / A691 | A182 | A387 | 0,05 - 0,15 | 1,90 - 2,60 | | 0,87 - 1,13 | | | 205 | 30 | 415-585 | 60-85 | 20 |
| 5 CROMO (P5) | 12CrMo19.5 | K41545 | A234 | A335 / A691 | A182 | A387 | 0,15 max | 4,00 - 6,00 | | 0,44 - 0,65 | | | 205 | 30 | 415-585 | 60-85 | 20 |
| 9 CROMO (P9) | X12CrMo91 | S50400 | A234 | A335 / A691 | A182 | A387 | 0,15 max | 8,00 - 10,00 | | 0,90 - 1,10 | | | 205 | 30 | 415-585 | 60-85 | 20 |
| P91 CROMO (P91) | X10CrMo VNB91 | S50460 | A234 | A335 / A691 | A182 | A387 | 0,08 - 0,12 | 8,00 - 9,50 | 0,40 max | 0,85 - 1,05 | | | 415 | 60 | 585-760 | 85-110 | 20 |
| 304 | 1.4301 | S30400 | A403 | A312 / A358 | A182 | A240 | 0,08 max | 18,0 - 20,0 | 8,0 - 11,0 | | 0,10 max | | 205 | 30 | 515 | 75 | 40 |
| 304L | 1.4306/1.4307 | S30403 | A403 | A312 / A358 | A182 | A240 | 0,035 max | 18,0 - 20,0 | 8,0 - 11,0 | | | | 170 | 25 | 485 | 70 | 30 |
| 304H | 1.4948 | S30409 | A403 | A312 / A358 | A182 | A240 | 0,04 - 0,10 | 18,0 - 20,0 | 8,0 - 13,0 | | | | 205 | 30 | 515 | 75 | 30 |
| 316 | 1.4401 | S31600 | A403 | A312 / A358 | A182 | A240 | 0,08 max | 16,0 - 18,0 | 10,0 - 14,0 | 2,0 - 3,0 | 0,10 max | | 205 | 30 | 515 | 75 | 40 |
| 316L | 1.4404 | S31603 | A403 | A312 / A358 | A182 | A240 | 0,03 max | 16,0 - 18,0 | 10,0 - 14,0 | 2,0 - 3,0 | 0,10 max | | 170 | 25 | 485 | 70 | 40 |
| 316H | 1.4919 | S31609 | A403 | A312 / A358 | A182 | A240 | 0,04 - 0,10 | 16,0 - 18,0 | 10,0 - 14,0 | 2,0 - 3,0 | | | 205 | 30 | 515 | 75 | 30 |
| 316TI | 1.4571 | S31635 | A403 | A312 / A358 | A182 | A240 | 0,08 max | 17,0 max | 13,0 max | 2,20 max | | Ti>=5 (C+N) | 225 | 33 | 550 | 80 | 40 |
| 321 | 1.4541 | S32100 | A403 | A312 / A358 | A182 | A240 | 0,08 max | 17,0 - 19,0 | 9,0 - 12,0 | | 0,10 max | Ti =5X(C+N) MIN 0,70 MAX | 205 | 30 | 515 | 75 | 40 |
| 321H | 1.4878 | S32109 | A403 | A312 / A358 | A182 | A240 | 0,04 - 0,10 | 17,0 - 19,0 | 9,0 - 12,0 | | | Ti =4X(C+N)MIN, 0,70 MAX | 205 | 30 | 515 | 75 | 35 |
| 347 | 1.4550 | S34700 | A403 | A312 / A358 | A182 | A240 | 0,08 max | 17,0 - 20,0 | 9,0 - 13,0 | | | Cb + Ta 1,1 MAX | 205 | 30 | 515 | 75 | 30 |
| 347H | 1.4550 | S34709 | A403 | A312 / A358 | A182 | A240 | 0,04 - 0,10 | 17,0 - 20,0 | 9,0 - 13,0 | | | Cb+Ta 1.1 MAX | 205 | 30 | 515 | 75 | 30 |
| 317 | 1.4449 | S31700 | A403 | A312 | A182 | A240 | 0,08 max | 18,0 - 20,0 | 11,0 - 15,0 | 3,0 - 4,0 | 0,10 max | | 205 | 30 | 515 | 75 | 35 |
| 317L | 1.4438/1.4439 | S31703 | A403 | A312 | A182 | A240 | 0,03 max | 18,0 - 20,0 | 11,0 - 15,0 | 3,0 - 4,0 | 0,10 max | | 205 | 30 | 515 | 75 | 40 |
| 309S | 1.4833 | S30908 | A403 | A312 / A358 | A182 | A240 | 0,08 max | 22,0 - 24,0 | 12,0 - 15,0 | 0,8 | | Cu 0,75 MAX | 205 | 30 | 515 | 75 | 35 |
| 310 | 1.4841 | S31000 | A403 | A312 / A358 | A182 | A240 | 0,15 max | 24,0 - 26,0 | 19,0 - 22,0 | | | | 205 | 30 | 515 | 75 | 30 |
| 310S | 1.4845 | S31008 | A403 | A312 / A358 | A182 | A240 | 0,08 max | 24,0 - 26,0 | 19,0 - 22,0 | 0,8 | | Cu 0,75 MAX | 205 | 30 | 515 | 75 | 35 |
| DUPLEX (2205) | 1.4462 | S31803 | A815 | A790 / A928 | A182 | A240 | 0,03 | 21,0 - 23,0 | 4,5 - 6,5 | 2,50 - 3,50 | 0,08 - 0,20 | | 450 | 65 | 620 | 90 | 25 |
| SUPER DUPLEX (2507) | 1.4507 | S32750 | A815 | A790 / A928 | A182 | A240 | 0,03 max | 24,0 - 26,0 | 6,0 - 8,0 | 3,00 - 5,00 | 0,24 - 0,32 | | 550 | 80 | 800 | 116 | 15 |
| SUPER DUPLEX | 1.4501 | S32760 | A815 | A790 / A928 | A182 | A240 | 0,05 max | 24,0 - 26,0 | 6,0 - 8,0 | 3,00 - 4,00 | 0,20 - 0,30 | | 550 | 80 | 895 | 130 | 25 |
| 410 | 1.4006 | S41000 | A815 | A268 | A182 | A240 | 0,15 max | 11,5 - 13,5 | | | | | 215 | 30 | 415 | 60 | 20 |
| 410S | 1.4000 | S41008 | A815 | A268 | A182 | A240 | 0,08 max | 11,5 - 13,5 | 0,60 max | | | | 290 | 42 | 444 | 64 | 33 |
| 904L | 1.4539 | N08904 | B366 | B673 / B677 | B649 | A240/B625 | 0,02 max | 19,0 - 23,0 | 23,0 - 28,0 | 4,0 - 5,0 | | Cu 1,0 - 2,0 | 220 | 31 | 490 | 71 | 35 |
| 309 | 1.4828 | S30900 | A403 | A312/A358 | A182 | A240 | 0,20 max | 19,0 - 21,0 | 11,0 - 13,0 | | | | 230 | 35 | 500 | 75 | 30 |
| 2545MO | 1.4547 | S31254 | A403 | A312 / A358 | A182 | A240 | 0,02 max | 19,5 - 20,5 | 17,5 - 18,5 | 6,0 - 6,5 | 0,18 - 0,22 | Cu 0,5 - 1,0 | 300 | 44 | 650 | 94 | 35 |
| INCOLOY 800 | 1.4876 | N08800 | B366 | B407 / B514 | B584 | B409 | 0,10 max | 19,0 - 23,0 | 30,0 - 35,0 | | | | 205 | 30 | 520 | 75 | 30 |
| INCOLOY 800H | 1.4958 | N08810 | B366 | B407 / B514 | B564 | B409 | 0,05 - 0,10 | 19,0 - 23,0 | 30,0 - 35,0 | | | | 170 | 25 | 450 | 65 | 30 |
| INCOLOY 800HT | 1.4959 | N08811 | B366 | B407 / B514 | B564 | B409 | 0,06 - 0,10 | 19,0 - 23,0 | 30,0 - 35,0 | | | | 170 | 25 | 450 | 65 | 30 |
| INCONEL 600 | 2.4816 | N06600 | B366 | B167 / B517 | B564 | B168 | 0,15 max | 14,0 - 17,0 | 72 min | | | | 205 | 30 | 550 | 80 | 35 |
| INCONEL 601 | 2.4851 | N06601 | B366 | B167 / B517 | B564 | B168 | 0,10 max | 21,05 - 25,0 | 58,0 - 63,0 | | | | 205 | 30 | 550 | 80 | 35 |
| INCOLOY 825 | 2.4858 | N08825 | B366 | B423 | B564 | B424 | 0,05 max | 19,5 - 23,5 | 38,0 - 46,0 | 2,5 - 3,5 | | Cu 1,5 - 3,0 // Ti 0,6 - 1,2 | 241 | 35 | 586 | 85 | 30 |
| INCONEL 625 | 2.4856 | N06625 | B366 | B444 / B705 | B564 | B443 | 0,10 max | 20,0 - 23,0 | 58 min | 8,0 - 10,0 | | Cb + Ta 3,15 - 4,15 | 414 | 60 | 827 | 120 | 30 |
| ALLOY 20 | 2.4660 | N08020 | B366 | B464 / B468 | B472 | B463 | 0,07 max | 19,0 - 21,0 | 32,0 - 38,0 | 2,0 - 3,0 | | Cu 3,0-4,0 // Nb 0,56 max | 241 | 35 | 551 | 80 | 30 |
| MONEL 400 | 2.4360 | N04400 | B366 | B165 | B564 | B127 | 0,31 max | | 63,0 min | | | Cu 28,0 - 34,0 | 195 | 28 | 480 | 70 | 35 |
| HASTELLOY B2 | 2.4617 | N10665 | B366 | B619 / B622 | B335 | B333 | 0,02 max | 1,00 max | 65,0 min | 26,0 - 30,0 | | | 350 | 51 | 760 | 110 | 40 |
| HASTELLOY C22 | 2.4602 | N06022 | B366 | B619 / B622 | B564 | B575 | 0,10 max | 20,0 - 22,5 | 50,0 min | 12,5 - 14,5 | | W 2,5-3,5 // Co 2,5 max | 310 | 45 | 690 | 100 | 45 |
| HASTELLOY C276 | 2.4819 | N10276 | B366 | B619 / B622 | B564 | B575 | 0,01 max | 14,5 - 16,5 | 57,0 min | 15,0 - 17,0 | | | 310 | 45 | 750 | 110 | 30 |
| NICKEL 200 | 2.4066 | N02200 | B366 | B161 | B564 | B162 | 0,15 max | | 99,0 min | | | | 80 | 12 | 380 | 55 | 40 |
| COPPER NICKEL 90/10 | 2.0872 | C70600 | EEMUA146 | B466 / B467 | EEMUA145 | B171 | 0,05 max | | 9,0 - 11,0 | | | Cu 85,0 min | 90 | 13 | 260 | 38 | |
| COPPER NICKEL 70/30 | 2.0882 | C71500 | EENUA146 | B466 / B467 | EEMUA145 | B171 | 0,05 max | | 29,0 - 33,0 | | | Cu 65,0 min | 125 | 18 | 345 | 52 | |
| Ti GR2 | 3.7035 | R50400 | B363 | B861 / B862 | B381 | B265 | 0,08 max | | | | | Ti 98,90 min | 275 | 40 | 345 | 50 | 20 |
| Ti GR7 | 3.7225 | R52400 | B363 | B861 / B862 | B381 | B265 | 0,08 max | | | | | Pa 0,12 - 0,25 // Ti 98,7 | 275 | 40 | 345 | 50 | 20 |

SEA FREIGHT Europe

Maron Steel Supplies is situated in Holland near Rotterdam and Antwerp seaports.

Cost and Freight (CFR) or Cost, Insurance and Freight (CIF) can be offered for every order.

Conventional or Container (20 foot, 40 foot or 45 foot) shipments are Maron's daily routine. We facilitate all kind of shipments in full accordance with your instructions.



Logistics & packing



TESTING

Maron Steel Supplies can perform all your additionally required non-destructive and/or destructive tests. Testing can be done at our fully certified laboratories within 20 minutes from our premises.

We can perform:

- Eddy Current Inspection (EC)
- Ultrasonic Inspection (UT)
- Magnetic Particle Examination (MPE)
- Positive Material Identification (PMI)
- Dye Penetrant Examination (PT)
- Liquid Penetrant Examination (LPE)
- Intergranular Corrosion Test (IGC)
- Corrosion Tests (Strauss, Huey and Salt Spray)
- Hardness Test (Brinell, Rockwell, Vickers, Shore)
- Charpy V-Notch Impact Test
- X-Ray examination
- Flattening Test
- Ring Expanding Test
- Bending Tests

NON Destructive and/or Destructive Testing

AIR FREIGHT Europe

Maron Steel Supplies is situated in Holland near many of Europe's biggest and best facilitated airports.

Airfreight:

Rotterdam 36 Km
Eindhoven 58 Km
Amsterdam 74 Km
Brussels 85 Km
Paris 328 Km

Besides the above locations, Maron Steel Supplies also delivers material from the USA, South Korea, China and Japan by sea and air directly to your premises.

Maron offers full service while using either your appointed shipping agent or by using our own airline agent.

Packing:

Maron Steel Supplies can also take care of suitable packing for sea and air freight.



QUALITY CONTROL, INSPECTION AND MARKING

Personal handling of your order ensures our high quality of supply. The above is the key to our successful position as being an international supplier.

All items will be supplied with minimum test certificate acc. to EN10204/3.1

We can arrange any kind of 3rd Party Inspection by a notified body (NoBo) on your behalf. Choice of organization shall be of our client or Maron Steel Supplies.

Maron Steel Supplies can perform any kind of specific marking, color coding, labelling and/or packing. Your instructions are implemented without fail and double checked before shipping.

If required Maron Steel Supplies can ship orders in neutral condition as the relation between our client and their end-user and/or final recipient is highly respected.



Maron Steel Supplies is an ISO 9001 approved supplier!

All of the above can be done under the supervision of an appointed 3rd Party inspector.

The execution of the above NDT and DT tests shall be in accordance with the norms specified by our clients. The same tests are in full compliance with either ASME, DIN, ISO, SEP, PED or API regulations.





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