

## F44 / 6Mo - Super Austenitic - UNS S31254

### MATERIAL DESCRIPTION

6Mo super austenitic steel combines moderate tensile strength and high ductility.

With a typical PREN of 42 – 45, the resistance to pitting corrosion and crevice corrosion is high.

### APPLICABLE SPECIFICATIONS

NORSOK M 650, NORSOK M 630 MDS R17

NACE MR-0175/ISO 15156

ASTM A182/182M, ASME SA182/182M

ASTM A276/276M, ASTM A479/479M,

ASME SA276/276M, ASME SA479/479M

1.4547 X1CrNiMoCuN20-18-7

### HEAT TREATMENT

Intoco bar stock is in the solution annealed & water quenched condition

### CHEMICAL ANALYSIS RANGE

ELEMENT	WEIGHT %	ELEMENT	WEIGHT %
C	0.02 Max	Cr	19.5 to 20.5
Si	0.80 Max	N	0.18 to 0.25
Mn	1.00 Max	Cu	0.50 – 1.00
P	0.03 Max	Mo	6.00 to 6.50
S	0.01 Max	Ni	17.5 to 18.5

### TYPICAL MECHANICAL PROPERTIES (Min unless stated)

0.2% Yield ksi (MPa)	UTS ksi (MPa)	Ductility		Full size (10mm x 10mm) Charpy V Notch @ -50°C Ft-lbs (J)	Hardness HBW (HRC)
		%EI 4D	%RA		
44 (300)	95 (650)	35	50	45 (60)	290 (29) max

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