

PRODUCT DATASHEET

F53

Grade

Super duplex stainless steel. Dual phase, high nitrogen (UNS S32750, 1.4410, ASTM A182 grade F53) 2507, ASTM A276, ASTM A479, EN 10088-3. NACE MR-0175/ISO 15156. NORSOK M-650/ISO 17782 qualified grade. M-630 D57.

Type

Delivered in the solution annealed condition

Composition	
Element	Weight%
Carbon	0.03 max
Silicon	1 max
Manganese	1.2 max
Phosphorus	0.035 max
Sulphur	0.02 max
Molybdenum	3 - 5
Chromium	24 - 26
Nickel	6 - 8
Manganese	1.2 max
Copper	0.5 max
Nitrogen	0.24 - 0.32

Grade Selection

High strength and excellent corrosion resistance. Resistant to stress-corrosion cracking, chloride pitting, crevice corrosion, erosion corrosion, corrosion fatigue and general corrosion. Offers good weldability.

Property	Values
0.2% Yield Strength	80 KSI min (552 MPA min)
Ultimate Tensile Strength	110 KSI min (758 MPA min)
Elongation	15
Hardness	28 HRC max