



Super Duplex UNS S32750

Super Duplex UNS S32750 is well suited to conditions that require both high strength and excellent resistance to corrosion. UNS S32750 contains high molybdenum, chromium and nitrogen which help towards the resistance of crevice corrosion and pitting in seawater, as well as other chloridic environments. This material also shows good resistance to general corrosion in acids, erosion corrosion and corrosion fatigue.

Super Duplex UNS S32750 is used in various industries, including marine industry and ship building, chemical plants, pulp & paper processing, water desalination plants, petrochemical and pollution control. UNS S32750 products in these industries would include hot water tanks, heat exchangers, water heaters and compressor & pump components.

Super Duplex UNS S32760 Grades & Equivalents:

- UNS S32750
- Alloy 2507
- Werkstoff 1.4410
- A182 F53
- ASTM A479
- ASTM A473
- NACE MR-01-75
- EN 10088-3

Typical Chemical Analysis

C	Si	Mn	P	S	Cr	Ni	Mo
0.030	0.80	1.20	0.035	0.020	24.0-26.0	6.0-8.0	3.0-5.0
W	N	Cb/Nb	Ti	Co	Cu	Al	B
	0.24-0.32				0.50		
V	Fe	Mg	Ta	Ca	O	Bi	Se
Sn	Zn	Pb	Y	Cb/Nb + Ta	Ni + Co	H	PREN

Typical Mechanical Properties in condition A

Tensile Strength	800 N/mm ² min
0.2% Proof Stress	550 N/mm ² min
Elongation	15%
Reduction of Area	
Hardness	310 HBw
Impacts	
Stress Rupture	
Other Remarks	

Product Forms Available:

- Hexagon Head Bolts
- Hexagon Nuts
- Studbolts
- Socket Capscrews
- Socket Countersunk Screws
- Socket Setscrews
- & Many other special fasteners and bespoke machined parts

Products can be produced to customer drawings or relevant British (BS), American (ASME, ANSI), European (DIN, UNI) or International Standards (ISO).

The size ranges M3 to M120 Metric and 3/16" to 4.75" Imperial can be supplied. Thread forms include UNC, UNS, UNF, BSW, BSF, Whitworth, Metric, Metric Fine.



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