SUPER DUPLEX STEEL

UNS 32750 - 1.4410



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UNS 32750, also known as 1.4410, is a Super Duplex Stainless Steel with a combination of excellent mechanical properties and corrosion resistance. UNS S32750 is a highly desirable material for applications requiring superior corrosion resistance, strength and toughness in aggressive environments, making it a preferred choice in critical industries worldwide.

KEY FEATURES

- Excellent corrosion resistance
- High tensile and yield strength
- Good ductility and toughness
- High temperature resistance
- Pitting and crevice resistance

CHEMICAL PROPERTIES										
Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)	Manganese (Mn)	Silicone (Si)	Copper (Cu)	Nitrogen (N)	Phosphorus (P)	Carbon (C)	Sulphur (S)	
24.5-26%	6-8%	3-5%	0.5-1%	0.8%	0.5-1%	0.5%	0.035%	0.03%	0.02%	

MECHANICAL PROPERTIES				
Tensile strength (N/mm²)	800			
Yield strength (N/mm²)	550			
Elongation (% in 4D)	25			
Hardness - Rockwell (HRB) max	105			
Hardness - Brinell (HB) max	270			

PHYSICAL P	PROPERTIES	
Density (kg/m³)	7810	
Modulus of elasticity (Gp	210	
Manage of Circles of	0-100°C (µm/m/°C)	13.0
Mean coefficient of	0-350°C (µm/m/°C)	14.1
thermal expansion	0-538°C (µm/m/°C)	15.3
Thermal	at 100°C (W/m.K)	14.2
conductivity	at 500°C (W/m.K)	19.6
Specific Heat 0-100°C (J	457	
Electrical resistivity (nΩ.	800	
Melting point (°C)	1350	

MARKET SECTORS



Pumps, valves, oil platforms, subsea pipelines



Reactors, heat exchangers,



Seawater intake systems, brine heaters, evaporators



Pulp & Paper Industry

Digester vessels, bleach towers, equipment



Heat exchangers, boilers, condensers



Food & Beverage **Industry**

Food handling machinery, storage tanks, equipment



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