# SUPER DUPLEX STEEL

## UNS 32750 - 1.4410



#### **UNS 32750 - 1.4410**

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

CHEM	ICAL PI	ROPER	TIES						
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 PROPERT	IES
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 PROPERTIES					
Density (kg/m³)	7810				
Modulus of elasticity (Gp	oa)	210			
	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



Chemical Processing

Reactors, heat exchangers, vessels



Desalination Components

Seawater intake systems, brine heaters, evaporators



Heat exchangers, boilers, condensers



Pulp & Paper Industry

Digester vessels, bleach towers, equipment



Food & Beverage Industry

Food handling machinery, storage tanks, equipment



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