LEAN DUPLEX STEEL

LDX 2202 - 1.4062



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LDX 2202 is a type of lean duplex stainless steel, designed to offer a balance of strength and corrosion resistance. It is engineered to deliver good performance in terms of mechanical strength and corrosion resistance, suitable for various applications where these properties are critical. Its composition ensures it is cost-effective by reducing the amount of nickel and molybdenum, which are more expensive alloying elements.

KEY FEATURES

- Excellent resistance to general corrosion
- High mechanical strength
- Excallent weldability and fabricability
- Good fatigue resistance
- Lower thermal expansion

CHEMICAL PROPERTIES										
Chromium (Cr)	Manganese (Mn)	Nickel (Ni)	Silicone (Si)	Molybdenum (Mo)	Copper (Cu)	Nitrogen (N)	Phosphorus (P)	Carbon (C)	Sulphur (S)	Iron (Fe)
21.5-24.5%	2-5%	1-3.5%	0.3-0.8%	0.1-0.6%	0.1-0.6%	0.1-0.25%	0.04%	0.03%	0.03%	rest

MECHANICAL PROPERT	IES
Tensile strength (N/mm²)	620-850
Yield strength (N/mm²)	450
Elongation (% in 4D)	25
Hardness - Rockwell C (HRC) max	28
Hardness - Brinell (HB) max	270

PHYSICAL PROPERTIES							
Density (kg/m³)	7700						
Modulus of elasticity (Gp	200						
Manage of Circles of	0-100°C (µm/m/°C)	13.0					
Mean coefficient of	0-350°C (µm/m/°C)	13.6					
thermal expansion	0-538°C (µm/m/°C)	14.1					
Thermal	at 100°C (W/m.K)	16.0					
conductivity	at 500°C (W/m.K)	20.0					
Specific Heat 0-100°C (J	500						
Electrical resistivity (nΩ.	800						
Melting point (°C)	1450						

MARKET SECTORS



Oil & Gas **Industry**

Offshore platforms, subsea equipment, process piping



Chemical **Processing**

Tanks, pressure vessels, heat exchangers, piping systems



Structural components, bridges,



Desalination Components

Desalination plants, waste facades, reinforcements and wastewater facilities



Pulp & Paper **Industry**

Processing equipment, storage tanks, piping

Digesters, bleaching equipment, tanks, piping



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