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

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

MECHANICAL PROPERTIES

Tensile strength (N/mm ²)	620-850
Yield strength (N/mm ²)	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	oa)	200
Manage of Circle and a C	0-100°C (µm/m/°C)	13.0
Mean coefficient of thermal expansion	0-350°C (µm/m/°C)	13.6
	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	/kg.K)	500
Electrical resistivity (nΩ.	800	
Melting point (°C)	1450	



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Architectural

Applications

Food & Beverage

Industry

Structural components, bridges,

facades, reinforcements

Processing equipment,

storage tanks, piping



equipment, process piping





Tanks, pressure vessels, heat exchangers, piping systems



Desalination Components

Desalination plants, waste and wastewater facilities



Digesters, bleaching equipment, tanks, piping