

1.4162

Trade name | LDX 2101®, Lean Duplex

Standards

Material No.	EN Designation	UNS
1.4162	X2CrMnNiN22-5-2	S32101

Description

1.4162 is a LEAN-DUPLEX chromium stainless steel with additional manganese, nickel, molybdenum and copper.

Special properties

Very good corrosion resistance. Good mechanical characteristics. Good endurance strength. Good weldability.

Chemical Composition

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.04	1.00	4.00-6.00	0.04	0.015
Cr %	Mo %	Ni %	N %	Cu %
21.0-22.0	0.10-0.80	1.35-1.70	0.20-0.25	0.10-0.80

Mechanical Properties
20°C

Hardness HB 30 ≤ HB	0.2% Yield strength R _p ≥ N/mm ²	Tensile strength R _m N/mm ²	Elongation A ₅ ≥ %	Modulus of elasticity kN/mm ²
290	450	> 650	30	200

Physical Properties 20°C

Density g/cm ³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm ² /m
7.7	500	15	0.8

Suitable welding
filler materials

CN 24/9 LDX PW-FD

Application

Chemical, pulp and cellulose industry, oil and gas industry

Available forms for 1.4162
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Sheets/Plates	Bars	Tubes/Pipes	Fittings
			