

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

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.

Steel Grade

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

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

Sheets/Coils	Bars	Tubes / Pipes	Fittings
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