

Chemical Composition

C ≤%	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.02	0.50	1.00	0.03	0.01
Cr %	Mo %	Ni %	N %	Cu ≤%
19.0-21.0	6.00-7.00	24.0-26.0	0.15-0.25	0.50-1.50

Description

1.4529 / AL-6XN® is a super-austenitic stainless steel, similar to 1.4539 / AISI 904 L, but with higher molybdenum and nitrogen content.

Special Properties

Extremely high resistance to pitting and crevice corrosion in halide media. Excellent general corrosion resistance in a wide range of media, both oxidizing and reducing. Improved mechanical properties over AISI 904 L.

Steel Grade

Alloy	UNS	Material No.	EN Designation
926	N08904	1.4529	X1NiCrMoCuN25-20-7

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
250	300	650-850	40/35	195

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
8.1	450	12	1

Suitable Welding Filler Materials

2.4621/2.4821

Application

Seawater engineering, cellulose industry

Available Forms for AL-6XN®

Sheets/Coils	Bars	Tubes / Pipes	Fittings	Forged / cast parts	Finished part (drawing)
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