AISI444 1.4521

Chemical Composition

C ≤%	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.025	1.00	1.00	0.04	0.015

Cr %	Ti %	N ≤%	Ti ≤%
17.0-20.0	1.80-2.50	0.030	4x(C+N)+0.15

Description

1.4521 / AISI 444 is a ferritic chromium stainless steel with molybdenum in addition.

Special Properties

Equal corrosion resistance to 1.4401/4404. Excellent resistance to stress corrosion cracking caused by chlorides.

Steel Grade

AISI	UNS	Material No.	EN Designation
444	S44400	1.4521	X2CrMoTi18-2

Mechanical Properties 20℃

Hardness HB 30 ≤ HB	0.2% Yield strength R_p ≥ N/mm²	Tensile strength R_m N/mm²	Elongation A_5 ≥ %	Modulus of elasticity kN/mm²
200	320	450-650	20	220

Physical Properties 20°C

Density g/cm³	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm²/m
7.7	430	23	0.8

Suitable Welding Filler Materials

1.4430

Application

Cold heading parts, heat exchanger tubes

Available Forms for AISI444

Sheets/Coils	Tubes / Pipes	Fittings

SHEYE METAL