

Chemical Composition

C ≤%	Si ≤%	Mn ≤%	P ≤%	S ≤%
0.03	1.00	1.00	0.04	0.015
Cr %	Ti ≤%			
10.5-12.5	6x(C+N)			

Description

1.4512 / AISI 409 is a ferritic chromium stainless steel.

Special Properties

Good resistance to stress corrosion cracking.

Steel Grade

AISI	UNS	Material No.	EN Designation
409	S40900	1.4512	X2CrTi12

Mechanical Properties 20°C

Hardness HB 30 ≤ HB	0.2% Yield strength R _p ≥ N/mm ²	Tensile strength R _m N/mm ²	Modulus of elasticity kN/mm ²
180	220	390-560	220

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	460	25	0.6

Suitable Welding Filler Materials

1.4316/1.4502/1.4551/1.4302

Application

Dairy and foodstuff industry

Available Forms for AISI409

Sheets/Coils	Bars	Tubes / Pipes	Wires	Fittings
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