

### Standards

Material No.	EN Designation	AISI/SAE	UNS
1.4512	X2CrTi12	409	S40900

### Description

1.4512 / AISI 409 is a ferritic chromium stainless steel.

### Special properties

Good resistance to stress corrosion cracking.

### 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)			

### Mechanical Properties 20°C

Hardness HB 30 ≤ HB	0.2% Yield strength R <sub>p</sub> ≥ N/mm <sup>2</sup>	Tensile strength R <sub>m</sub> N/mm <sup>2</sup>	Modulus of elasticity kN/mm <sup>2</sup>
180	220	390-560	220

### Physical Properties 20°C

Density g/cm <sup>3</sup>	Specific heat capacity J/kg K	Thermal conductivity W/m K	Electrical resistivity Ω mm <sup>2</sup> /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 1.4512 / AISI 409

Sheets/Plates	Bars	Wire	Tubes/Pipes	Fittings
				