

Standards

Material No.	EN Designation	AISI/SAE	UNS
1.4510	X3CrTi17	439	S43036

Description

1.4510 / AISI 430 is a ferritic chromium stainless steel, stabilized with titanium.

Special properties

Very good resistance to intergranular and pitting corrosion.

Chemical Composition

C %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %
≤ 0.05	1.00	1.00	0.04	0.015
Cr %	Ti ≤ %			
16.0-18.0	4x(C+N)+0.15			

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
185	270	450-600	20	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 1.4510 / AISI 430

Sheets/Plates	Bars	Wire	Tubes/Pipes	Fittings
				