

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			

Description

1.4510 / AISI 439 is a ferritic chromium stainless steel, stabilized with titanium.

Special Properties

Very good resistance to intergranular and pitting corrosion.

Steel Grade

AISI	UNS	Material No.	EN Designation
439	S43036	1.4510	X3CrTi17

Mechanical Properties 20 °C

Hardness HB 30 ≤ HB	0.2% Yield strength R _{0.2} ≥ N/mm ²	Tensile strength R _m N/mm ²	Modulus of elasticity kN/mm ²	Elongation A ₅ ≥ %
185	270	450-600	220	20

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 AISI439

Sheets/Coils	Bars	Tubes / Pipes	Wires	Fittings
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