



FERRITIC STAINLESS STEEL	
EN DESIGNATION	ASTM DESIGNATION
1.4510	439
	S43932

**Description:**

Type 439 Stainless Steel is a ferritic stainless steel designed to resist corrosion in a variety of oxidizing environments from fresh water to boiling acids. It may be used in either the annealed, cold formed or as-welded condition in many applications. Type 439 provides good oxidation and corrosion resistance for many automotive exhaust system components and residential furnace primary heat exchangers. Atmospheric corrosion resistance is good, although in highly polluted or marine environments staining may occur.

**Chemical Composition:**

Al	C	S	P	Mn	Si	Cr	Ni	N	Ti	Nb
≤ 0.15	≤ 0.030	≤ 0.030	≤ 0.040	≤ 1.00	≤ 1.00	17.0-19.0	≤ 0.50	≤ 0.030	≤ 0.75	≤ 0.75

**Mechanical Properties:**

Rm (MPa)	Rp0.2 (MPa)	A50 (%)	HRBW
≥ 415	≥ 205	≥ 22	≤ 89

**Applications:**

Automotive exhaust applications. Typical uses include tubular manifolds and other exhaust system components where temperatures may exceed the oxidation limit of Type 409, or where wet corrosion resistance, particularly to chlorides, is needed.

**Specifications:**

It can be delivered according to EN, ASTM, ASME standard requirements.