STAINLESS STEEL AISI 430

DIN	En Nr.	UNS (ASTM)	AISI
X6Cr17	1.4016	-	430

Chemical composition (Weight %)	C	Cr	Mn	Si	P	S
	0.12 max.	16.0-18.0	1.0 max	1.0 max	0.045 max	0.03 max.

Main technological properties

Steel grade 430 is a low-carbon plain chromium ferritic stainless steel. The steel has good corrosion resistance in mildly corrosive environments and good resistance to oxidation at elevated temperatures. In the annealed condition the steel is ductile, does not harden excessively during cold work and can be formed using a large variety of roll forming or mild stretch-bending operations, as well as the more common drawing and bending processes. The steel has limited weldability and should not be used in the as welded condition for dynamic or impact loaded structures. Being a ferritic material, 430 is liable to brittle fracture at sub-zero temperatures, and cannot be used in cryogenic applications. As the steel does not contain nickel or molybdenum, it is cheaper than any of the 300 series steels.

Typical dimensions	Thickness (mm)	Width (mm)	Length (mm)
Strip in coil	-	-	-
Strips in sheet	0.40-1.20	1000	2000

Mechanical properties	Temper	Rm (N/mm2)	Rp (N/mm2)	A50mm (%)	Hv
	½ hard	450-600			

Color

gray

Typical usage

AISI 430 is a simple corrosion and heat-resisting grade and finds application in areas where mildly corrosive conditions occur or where scaling resistance at moderate temperatures is required. Typical applications include:

- Automotive trim
- architectural applications such as industrial roofing and wall cladding
- kitchen utensils
- sinks
- washing machine parts
- industrial pipe and tube
- Refrigerator cabinet panels
- Element supports and fasteners

Surface

Special surface qualities upon request (2B or BA - mirror)

Flatness

Special requirement on the longitudinal or transversal flatness upon request

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