

AISI 429

STAINLESS STEEL

BOLTING MATERIAL FOR HIGH TEMPERATURE SERVICE

Stainless steel grade 429 is a ferritic steel. It is also known as AISI Type 429 chromium steel. This steel possesses good corrosion resistance, and its weldability is better than 430 steel. AISI/SUS 429 Stainless Steel is similar in mechanical property with 409S. It provides adequate resistance to atmospheric corrosion, fresh water, mild acids and alkalies, and some other chemicals. ferritic in the annealed condition.

Chemical Properties

C	Mn	P	S	Si	Cr	Ni
0.12 Max	1.00 Max	0.040 Max	0.030 Max	0.75 Max	14.0-16.0	0.50 Max

Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction	Hardness
Min 0.2% Mpa	Min Mpa	Min %	Min %	BHN
240	415	20	45	190

Physical Properties

Density	Elastic Modulus	Mean Coefficient of Thermal			Thermal Conductivity		Specific Heat	Electrical Resistivity
(Kg/m ³)	(Gpa)	Expansion(μm/m/°C)			(W/m.K)		0-100°C	(nΩ.m)
7750	200	15.9	16.2	17	14.2	18.7	500	720

Heat Treatment

Annealed @ 1010°C Furnace Cooled

Equivalent Designation

UNS S42900
Din X7Cr14
Werkstoff.No. 1.4001
Jis SUS429

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