

AISI 310

STAINLESS STEEL

BOLTING MATERIAL FOR HIGH TEMPERATURE SERVICE

AISI 310, combining excellent high temperature properties with good ductility and weldability, is designed for high temperature service. It resists oxidation in continuous service. It is also used for intermittent service at temperatures up to 1040°C. Stainless steels are most commonly used for their corrosion resistance. The second most common reason stainless steels are used is for their high temperature properties; stainless steels can be found in applications where high temperature oxidation resistance is necessary, and in other applications where high temperature strength is required.

Chemical Properties

C	Mn	P	S	Si	Cr	Ni
0.25 Max	2.00 Max	0.045 Max	0.03 Max	1.00 Max	24.0-26.0	19.0-22.0

Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction
Min 0.2% Mpa	Min Mpa	Min %	min %
205	515	30	50

Physical Properties

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

Heat Treatment

Solution Annealed @ 1040°C & Liquid Quenched @ 260°C

Equivalent Designation

UNS S31000
 AISI 310
 Werkstoff.No. 1.4841
 AFNOR X15CrNi25-20
 SS 310

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