

AISI 309

STAINLESS STEEL

BOLTING MATERIAL FOR HIGH TEMPERATURE SERVICE

AISI 309 is an austenitic heat resistant alloy with oxidation resistance. The high chromium and relatively low nickel content of 309 provide good resistance to high temperature sulfur bearing atmospheres. 309 has only moderate resistance to carbon absorption and is not suggested for use in highly carburizing atmospheres.

Chemical Properties

C	Mn	P	S	Si	Cr	Ni
0.03 Max	2.00 Max	0.045 Max	0.030 Max	1.00 Max	22.0-24.0	12.0-15.0

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	
7.89	196	15.6	17.6	19.4	15.6	18.7	502	114.8

Heat Treatment

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

Equivalent Designation

UNS S30900
 EN Name X15CrNi23-13
 Werkstoff.No. 1.4828

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