

AISI 304

STAINLESS STEEL

BOLTING MATERIAL FOR HIGH TEMPERATURE SERVICE

Types 304 Stainless Steel are the most versatile and widely used of all the stainless steels. Their chemical composition, mechanical properties, weldability and corrosion/oxidation resistance provides the best all-round performance at relatively low er cost. AISI 304 Stainless Steel have excellent low -temperature properties and respond well to hardening by cold working. The carefully controlled chemical compositions of various sub -grades provide a large range of cold work hardenability, enabling them to suit for various applications by direct drawing without intermediate annealing.

Chemical Properties

C	Mn	P	S	Si	Cr	Ni	N
0.08 Max	2.00 Max	0.045 Max	0.030 Max	1.00 Max	18.0-20.0	8.0-11.0	0.10 Max

Mechanical Properties

Yeild 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	Range F
8060	193	17.9	18.4	18.8	9.4	12.4	503	1398 To 1454

Heat Treatment

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

Equivalent Designation

UNS S30400
 EN number 58E
 En Name X5CrNi18-10
 Werkstoff.No. 1.4301
 JIS SUS304
 SS 304S31

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