

AISI 304N

STAINLESS STEEL

BOLTING MATERIAL FOR HIGH TEMPERATURE SERVICE

AISI 304N is an austenitic stainless steel with N and Ni elements. It is from AISI 304 with 0.15%-0.3% N and Ni less than 0.15%. AISI 304N is mainly used for welding equipment and structure parts with requirements of resistive corrosion and high strength. AISI/SUS 304, this material is with higher tensile strength than AISI/SUS 304 and AISI/SUS 304LN stainless, is mainly used in coal, oil industries' open air equipments, chemical goods ship, which has a high request of resistance for grain boundary attack.

Chemical Properties

C	Mn	P	S	Si	Cr	Ni	N
0.030 Max	2.00 Max	0.045 Max	0.030 Max	1.00 Max	18.0-20.0	8.0-13.0	0.10 Max

Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction
Min 0.2% Mpa	Min Mpa	Min %	Min %
170	485	30	50

Physical Properties

Density	Elastic Modulus	Specific Heat	Electrical Resistivity
(Kg/m ³)	(Gpa)	0-100°C	(nΩ.m)
8.06	196	503	720

Heat Treatment

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

Equivalent Designation

UNS S30451
Jis SUS 304N1
SS 2371

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