

EN3506-1 A2-70

STAINLESS STEEL

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

EN3506-1 A2-70 is an austenitic, acid proof stainless grade (usually 304 material - 304 or 304L) which has been cold worked to provide a minimum tensile strength of 700 N/mm² (MPa). Grade 304 is the standard "18/8" stainless; it is the most versatile and most widely used stainless steel. It has excellent forming and welding characteristics. The balanced austenitic structure of Grade 304 enables it to be severely deep drawn without intermediate annealing; Grade 304 also has outstanding welding characteristics. The most universal and applied property class for all cold-formed fasteners. This class is the standard class and is delivered when no other class is ordered

Chemical Properties

C	Mn	P	S	Si	Cr	Ni
0.08	2.0	0.045	0.030	1.00	18.0-20.0	8.0-10.5

Mechanical Properties

Yield strength	Tensile strength	Elongation
Min 0.2% Mpa	Min Mpa	Min %
210	564	40

Physical Properties

Density	Elastic Modulus	Mean Coefficient of Thermal			Thermal Conductivity		Specific Heat	Melting Range
(Kg/m ³)	(Gpa)	Expansion (µm/m/°C)			(W/m.K)		0-100°C	°C
8000	193	17.2	17.8	18.4	16.2	21.5	500	1400-1450

Heat Treatment

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

Equivalent Designation

UNS S30403
Werkstoff no 1.4301
EN name X2CrNi18-9
AISI 304

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