

EN3506-1 A2-80

STAINLESS STEEL

BOLTING MATERIAL FOR LOW TEMPERATURE SERVICE

EN3506-1 A2-80 The most current steel grade also called 18/8 (18% Cr, 8% Ni) – with outstanding corrosion resistance under normal atmospheric conditions, in wet surroundings, oxidizing and organic acids, many alkalic and salt solutions. The highest property class, having obtained mechanical values by extra cold deformation to the level of the 8.8 heat-treated steel bolts. Exchange does not require a new strength calculation or adaptation of the construction.

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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