

25CrMo4

Cr-Mo-V ALLOY

BOLTING MATERIAL FOR HIGH TEMPERATURE SERVICE

25CrMo4 is an Alloyed heat treatable steel with a typical tensile strength of 700 - 950 N/mm² and a good weldability. For automotive and aircraft components with high toughness as axles, axle journals, turbine parts, turbine rotors.

Chemical Properties

C	Si	Mn	P	S	Cr	Mo
0.22-0.29	0.4 max	0.6-0.9	0.025	0.035	0.9-1.2	0.15-0.30

Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction
Min 0.2% Mpa	Min Mpa	Min %	Min %
345-355	670-1400	12-16.	50-60

Physical Properties

Density	Elastic Modulus	Mean Coefficient of Thermal			Thermal Conductivity		Specific Heat
(Kg/m ³)	(Gpa)	Expansion(μm/m/°C)			(W/m.K)		0-100°C
7.83	164-217	10.5	12.7	14.4	35.6	41	423-587

Heat Treatment

Hot rolled mechanical properties for quenched and tempered condition

Equivalent Designation

EN10269
Werkstoff.No. 1.7218
Din 25CrMo425
SAE4130
AFNOR 25CD4
ISO 25CrMo4

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