

Cr-Mo-V

# DURAHETE 900 T22

# ALLOY

BOLTING MATERIAL FOR HIGH TEMPERATURE SERVICE

DURAHETE 900 T22 most commonly known as 42CrMoV5-6 has good mechanical properties & resistance to wear most commonly used for applications in compressor Discs, Mechanical Parts, fasteners for aerospace applications & shafts in all aspects of aviation, aerospace, shipbuilding, military industry, nuclear power and transportation, machine, petrochemical, medical instruments, Air Bag Components, Oil Field Products, Aerospace, Defense, Forgers, Light & Heavy Equipment, Industrial Machinery, Post Tensioning Fasteners, Bolts, Medium & Heavy Duty Electric Motors, Power Transmissions, Bearings, Suspension Parts, Turbine Blades, Hand Tools, Automotive Parts and Fasteners, Marine Outboard Engines, etc.

### Chemical Properties

C	Si	Mn	P	S	Cr	Mo
0.39-0.45	0.40 max	0.40-0.70	0.035	0.035	1.20-1.50	0.50-0.70

### Mechanical Properties

Yield strength	Tensile strength	Elongation	Reduction
Min 0.2% Mpa	Min Mpa	Min %	Min %
700	1060	16	50

### Physical Properties

Density	Elastic Modulus	Mean Coefficient of Thermal			Thermal Conductivity		Specific Heat	Electrical Resistivity
(Kg/m <sup>3</sup> )	(Gpa)	Expansion (µm/m/°C)			(W/m.K)		0-100°C	(nΩ.m)
7833	165	11.1	12.9	14.1	33	44	487-572	239-688

### Heat Treatment

Quenched @ 870°C & Tempered @ 700°C

### Equivalent Designation

En name 42CrMo5.6  
 Werkstoff.No. 1.7233  
 BS1506 631-850  
 BSEN 10269: 1999  
 EN10269

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