

Material: EN 1.7383

EN 10222-2 Steel forgings for pressure purposes

Group: Ferrous Mild Steel Alloys

Sub Group: EN 10222-2 Steel forgings for pressure purposes

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 - 0.150	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.400 - 0.800		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	2.000 - 2.500		
Molybdenum	Mo %	0.900 - 1.100		
Nickel	Ni %	0.300 max.		
Vanadium	V %	0.020 max.		
Niobium	Nb %	0.010 max.		
Copper	Cu %	0.300 max.	Mechanical Properties Tensile Strength in Mpa 450 - 600 Yield Strength in Mpa 255 min. Elongation in % 20 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 34 min.	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J22090	UNS	USA	Casting
1.7379	DIN	Germany	Forging
10 CD 9.10	AFNOR NF	France	Forging
622	BS	British	Bar
GS 18 CrMo 9 10	ONORM	Australia	Steel
8 CrMoNiNb 9-10	DIN	Germany	Steel
A757 D1N1 D1Q1	ASTM	USA	Casting

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