

Material: UNS J42220

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: UNS J42220 Alloy Steel Casting

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.220 max.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	1.350 - 1.850		
Molybdenum	Mo %	0.350 - 0.600		
Nickel	Ni %	2.500 - 3.500		
Vanadium	V %	0.030 max.		
Copper	Cu %	0.500 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	620 min.
-	-	-	Yield Strength in Mpa	450 min.
-	-	-	Elongation in %	22 min.
-	-	-	Reduction of Area in %	40 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	41 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.6783	EN	European Union	Casting
A757 Grade E1Q	ASTM	USA	Casting
G19 NiCrMo 12-6	EN	European Union	Casting
G19 NiCrMo 12-6	DIN	Germany	Casting
A757 Grade E1Q	ASTM	USA	Casting
A757 Grade E2N1, E2Q1	ASTM	USA	Casting
A757 Grade E2N1, E2Q2	ASTM	USA	Casting

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