

Material: UNS J42015

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: UNS J42015 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 %	0.200 max.	Normalizing + Tempering or Hardening + Tempering	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.550 - 0.750		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	1.350 - 1.650		
Nickel	Ni %	2.500 - 3.250		
Molybdenum	Mo %	0.300 - 0.600		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	690 - 827
-	-	-	Yield Strength in Mpa	552 - 686
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	55 min.
-	-	-	Hardness in HB	230 - 290
-	-	-	Impact in Joule	41 J @ -73°C

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-352 Grade LC2-1	ASME	USA	Casting
1.6783	DIN	Germany	Casting
20NCD12M	AFNOR NF	France	Casting
T15MoCrNi30R	STAS	Romania	Casting
1.6783	EN	European Union	Casting
J42215	UNS	USA	Casting
A352 LC2-1	ASTM	USA	Casting

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