



Material - UNS J91650

Standard Specification for Alloy Steel Casting

Group - Ferrous Stainless Steel Alloys

Sub Group - UNS J91650 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 %	0.060 max.	Heating + Reheating + Aging	
Silicon	Si %	1.000 max.		
Manganese	Mn %	0.500 max.		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	10.500 -12.500		
Nickel	Ni %	6.000 - 8.000		
Iron	Fe %	Balance		
-	-	-		
Mechanical Properties				
Tensile Strength in Mpa		965 min.		
Yield Strength in Mpa		930 min.		
Elongation in %		15 min.		
Reduction of Area in %		50 min.		
Hardness in BHN		-		
Impact in Joule		-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CA6N	ASTM	USA	Casting
CA-6N	NBR	Brazil	Casting
CA-6N	NMX	Maxicon	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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