



Material - UNS J80020

Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant for Severe Service

Group - Ferrous Stainless Steel Alloys

Sub Group - UNS J80020 Iron-Chromium-Nickel, Corrosion Resistant for Severe Service

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	19.000 - 22.000		
Nickel	Ni %	27.500 - 30.500		
Molybdenum	Mo %	2.000 - 3.000		
Copper	Cu %	3.000 - 3.500		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 425 min. Yield Strength in Mpa 170 min. Elongation in % 35 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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-	-	-		
-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 744 CN3MCu	UNS	USA	Casting
A990 CN3MCu	ASTM	USA	Casting
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-	-	-	-
-	-	-	-
-	-	-	-
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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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