

# 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		
Carbon	C %	0.030 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

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	-

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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