

Material: ASTM A 451 Grade CPE20N

Standard Specification for Centrifugally Cast Austenitic Steel Pipe for High-Temperature Service

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A 451 Grade CPE20N Centrifugally Cast Austenitic Steel Pipe for High-Temperature Service

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 max.	Solution Annealing	
Silicon	Si %	1.500 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	23.000 - 26.000		
Nickel	Ni %	8.000 - 11.000		
Nitrogen	N %	0.080 - 0.200		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	550 min.
-	-	-	Yield Strength in Mpa	275 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J92802	UNS	USA	Casting
J92805	UNS	USA	Casting
A351 CE20N	ASTM	USA	Casting
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-	-	-	-
-	-	-	-
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Customer Care: +91-99090 45075 Email: info@icastllp.com