GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A451 CPK20

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

Group - Ferrous Stainless Steel Alloys
Sub Group - ASTM A451 CPK20 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 - Steel and Pipe

Chemical Composition		
Carbon	C %	0.200 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Silicon	Si %	1.750 max.
Nickel	Ni %	19.000 - 22.000
Chromium	Cr %	23.000 - 27.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	448 min.
Yield Strength in Mpa	195 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J94202	UNS	USA	Steel
G 5121 SCS 18	JIS	Japan	Steel and Pipe
SA-451 Grade CPK20	ASME	USA	Steel
A 743 Grade CK-20	ASTM	USA	Steel
A 351 Grade CK20	ASTM	USA	Steel
A 743 25Cr-20Ni	ASTM	USA	Steel
-	-	-	-

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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