GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A451 CPF3

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

Group - Ferrous Stainless Steel Alloys
Sub Group - ASTM A451 CPF3 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 %	0.030 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Silicon	Si %	2.000 max.
Nickel	Ni %	8.000 - 12.000
Chromium	Cr %	17.000 - 21.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	485 min.
Yield Strength in Mpa	205 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J92500	UNS	USA	Steel
G 5121 SCS 19A	JIS	Japan	Steel and Pipe
SA-451 Grade CPF3	ASME	USA	Steel and Pipe
3100 304 C 12	BS	British	Steel
6323-8 LWCF 20	BS	British	Steel and Tubing
A 743 Grade CF-3	ASTM	USA	Steel
A 744 Grade CF-3	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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