GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A451 CPF8C (Ta max)

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A451 CPF8C (Ta max) 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 %	0.080 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Silicon	Si %	2.000 max.
Nickel	Ni %	9.000 - 12.000
Chromium	Cr %	18.000 - 21.000
Niobium	Nb %	0.008 - 1.000
Tantalum	Ta %	0.100 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	485 min.
Yield Strength in Mpa	205 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**
J92710	UNS	USA	Steel
EN 10213-4 1.4552	DIN	Germany	Steel
3100 347 C 17	BS	British	Steel
G 5121 SCS 21	JIS	Japan	Steel and Pipe
J 405 347	SAE	USA	Steel
A 744 Grade CF-8C	ASTM	USA	Steel
A 743 Grade CF-8C	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.