GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A451 CPH20 or CPH10

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A451 CPH20 or CPH10 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 %	2.000 max.
Nickel	Ni %	12.000 - 15.000
Chromium	Cr %	22.000 - 26.000
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**
J93402	UNS	USA	Steel
J93401	UNS	USA	Steel
SA-451 Grade CPH10	ASME	USA	Steel
A 743 Grade CH-10	ASTM	USA	Steel
A 743 Grade CH-20	ASTM	USA	Steel
A 743 25Cr-12 Ni	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.