



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A743 CF10SMnN

Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant, for General Application

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A743 / A743M Casting, Iron-Chromium-Nickel, corrosion Resistant Casting, for General Application

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 max.	Solution Annealing	
Silicon	Si %	3.500 - 4.500		
Manganese	Mn %	7.000 - 9.000		
Phosphorus	P %	0.060 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.000 - 18.000		
Nickel	Ni %	8.000 - 9.000		
Nitrogen	N %	0.080 - 0.180		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 585 min. Yield Strength in Mpa 290 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
SA-351 CF10SMnN	ASME	USA	Casting
J92972 UNS	UNS	USA	Casting
S21800 UNS	UNS	USA	Casting
5848	AMS	USA	Bar, Wire, Extrusions, Tube, Ring and Forging
SA-276 S21800	ASME	USA	Bar and Shape
A580 S21800	ASTM	USA	Wire
ASTM A 351 CF10SMnN	ASTM	USA	Casting

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.

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