



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A743 CK35MN

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 %	0.035 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	22.000 - 24.000		
Nickel	Ni %	20.000 - 22.000		
Molybdenum	Mo %	6.000 - 6.800		
Copper	Cu %	0.400 max.		
Nitrogen	N %	0.210 - 0.320		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 570 min. Yield Strength in Mpa 280 min. Elongation in % 35 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A213 S 32050	ASTM	USA	Tubes for Superheaters and Heat Exchanges
A240 S 32050	ASTM	USA	Plate, Sheet and Strip
A 959 S 32050	ASTM	USA	Plate, Sheet and Strip
A358 S 32050	ASTM	USA	Pipes
A249 S 32050	ASTM	USA	Tubes for Superheaters and Heat Exchanges
S 32050	UNS	USA	Plate, Sheet and Strip
STS 350	KS	Korea	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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