



Material - IS 13505 Grade 5

Standard Specification for Centrifugally Cast High Alloy Steel and Nickel Base Tubing for Pressure Application at High Temperature

Group - Ferrous Stainless Steel Alloys

Sub Group - IS 13505 Centrifugally Cast High Alloy Steel and Nickel Base Tubing for Pressure Application at High Temperature

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 max.	Solution Annealing	
Silicon	Si %	2.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	23.000 - 27.000		
Nickel	Ni %	19.000 - 22.000		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 450 min. Yield Strength in Mpa 190 min. Elongation in % 30 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CK20	ASTM	USA	Casting
SA-351 Grade CK20	ASME	USA	Casting
1.4843	DIN	Germany	Round and Flat Wire
SCS 18	JIS	Japan	Centrifugal Cast Steel Pipes
Ch25N20	GOST	Russia	Precision Alloys
H 23 N 18	PN	Poland	Heat Resisting Steel
T 25 NiCr 250	STAS	Romania	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

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