



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-351 Grade CK20

Standard Specification for Austenitic Stainless and Austenitic Ferritic Steel Rolled Tubes for Pressure Service

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-351 Grade CK20 Austenitic Stainless and Austenitic Ferritic Steel Rolled Tubes for Pressure Service

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

Grade Belongs to the Industry - Rolled Tubes for Pressure Service

Chemical Composition			Heat Treatment	
Carbon	C %	0.040 - 0.200	Solution Annealing	
Silicon	Si %	1.750 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	23.000 - 27.000		
Nickel	Ni %	19.000 - 22.000		
Molybdenum	Mo %	0.500 Max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	450 min.
-	-	-	Yield Strength in Mpa	195 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
1.4843	DIN	Germany	Round and Flat Wire
SCS 18	JIS	Japan	Centrifugal Cast, Steel, Pipes.
CH25N20	GOST	Russia	Precision Alloys
H23N18	PN	Poland	Heat Resisting Steels
T25 NiCr 250	STAS	Romania	Casting
A743 CK20	ASTM	USA	Casting
A351 CH20	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

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