



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - AFNOR NF TS 15 CD 2-05

Standard Specification for Longitudinally Fusion Unalloyed and Ferritic Alloyed Steel Tubes for Use at Elevated Temperatures

Group - Ferrous Mild Steel Alloys

Sub Group - AFNOR NF TS 15 CD 2-05 Longitudinally Fusion Unalloyed and Ferritic Alloyed Steel Tubes for Use at Elevated Temperatures

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

Grade Belongs to the Industry - Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 - 0.180	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.100 - 0.350		
Manganese	Mn %	0.500 - 0.900		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	0.400 - 0.650		
Nickel	Ni %	0.300 max.		
Molybdenum	Mo %	0.450 - 0.600		
Vanadium	V %	0.040 max.		
Aluminium	Al %	0.025 min.		
Tin	Sn %	0.030 max.	Mechanical Properties Tensile Strength in Mpa 440 - 570 Yield Strength in Mpa 275 min. Elongation in % 22 min. Reduction of Area in % - Hardness in HV 320 max. Impact in Joule -	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
12 MCh	GOST	Russia	Steel
L 17 HM	PN	Poland	Casting
STE 285	DIN	Germany	Tube
J12540	UNS	USA	Casting
XF 400	AS	Australia	Flat
XF 500	AS	Australia	Flat
A356 5	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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