Material - AFNOR NF 42 CD 4-M

Standard Specification for Cast Steels and White Cast Iron Resistant to Abrasion

Group - Ferrous Mild Steel Alloys

Sub Group - AFNOR NF 42 CD 4-M Cast Steels and White Cast Iron Resistant to Abrasion

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment
Carbon	C %	0.380 - 0.450	
Silicon	Si %	0.600 max.	
Manganese	Mn %	1.000 max.	
Phosphorus	P %	0.040 max.	Annealing or Normalising or Hardening + Tempering
Sulphur	S %	0.035 max.	
Chromium	Cr %	0.800 - 1.200	
Molybdenum	Mo %	0.150 - 0.350	
Iron	Fe %	Balance	

Mechanical Properties	
Tensile Strength in Mpa	500 - 1600
Yield Strength in Mpa	570 min.
Elongation in %	3 min.
Reduction of Area in %	-
Hardness in HB	220 - 350
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J04002	UNS	USA	Casting
DIN 1.1190	DIN	Germany	Steel
A 3	BS	British	Casting
1040	AISI	USA	Forging, Bar, Wire, and Shape
A732 3Q	ASTM	USA	Casting
A732 1Q	ASTM	USA	Casting
A732 3A	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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