

## 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	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
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

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