Material - DIN 1.1190 + N

Standard Specification for Carbon Heat-Treatable Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - DIN 1.1190 + N Carbon Heat-Treatable Steel Casting

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

Grade Belongs to the Industry - Casting

Chemical Composition		
Carbon	C %	0.390 - 0.440
Silicon	Si %	0.250 - 0.400
Manganese	Mn %	0.750 - 0.900
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Nitrogen	N %	0.0070 max.(P-content N up to
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalising or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	460 - 620
Yield Strength in Mpa	345 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J04002	UNS	USA	Casting
1040	AISI	USA	Forging, Bar, Wire, and Shape
A 3	BS	British	Casting
42CD4M	AFNOR NF	France	Casting
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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