

Material: CSN 13030

Standard Specification for Low Alloyed Manganese Steel

Group: Ferrous Mild Steel Alloys

Sub Group: CSN 13030 Low Alloyed Manganese Steel

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

Grade Belongs to the Industry: Steel

Chemical Composition		
Carbon	C %	0.140 - 0.200
Silicon	Si %	0.150 - 0.400
Manganese	Mn %	1.000 - 1.400
Phosphorus	P %	0.035 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	0.300 max.
Nickel	Ni %	0.300 max.
Molybdenum	Mo %	0.100 max.
Copper	Cu %	0.300 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	440 - 570
Yield Strength in Mpa	235 min.
Elongation in %	19 min.
Reduction of Area in %	-
Hardness in HB	127 - 166
Impact in Joule	400 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.0457	EN	European Union	Pipes
1.0484	DIN	Germany	Pipes
J13005	UNS	USA	Casting
20MB5	AFNOR NF	France	Cold Rolled, Strip
230 - 450 W	JIS	Japan	Casting
3	AS	Australia	Hot Rolled Bar
A487 2A	ASTM	USA	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com