GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10250-2 20Mn5 I 1.1133

Standard Specification for Open Die Steel Forgings for General Engineering Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10250-2 20Mn5 I 1.1133 Open Die Steel Forgings for General Engineering Purposes

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

Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.170 - 0.230
Silicon	Si %	0.400 max.
Manganese	Mn %	1.000 - 1.500
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Chromium	Cr %	0.400 max.
Molybdenum	Mo %	0.100 max.
Nickel	Ni %	0.400 max.
Cr + Mo + Ni	Cr% + Mo% + Ni%	0.630 max.
Aluminium	Al %	0.020 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Normalizing or Normalizing & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	530 min.
Yield Strength in Mpa	300 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in HRB	-
Impact in Joule	50 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A 36-102 20 MnB 5 RR	AFNOR NF	France	Steel and Strip
8185 20 VMn 12	STAS	Romania	Steel and Pipe
1502 211	B.S.	United Kingdom	Steel and Bars
1502 221	B.S.	United Kingdom	Steel and Bars
10269 1.1133	EN	European Union	Steel
17243 20 Mn 5 N/V	DIN	Germany	Bars and Forging
17243 1.1133	DIN	Germany	Bars and Forging

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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