GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10293 1.6220 (G20Mn5)

Standard Specification for Steel Castings for general engineering uses

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10293 1.6220 (G20Mn5) Steel Castings for general engineering uses

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

Grade Belongs to the Industry - Casting

Chemical Composition		
Carbon	C %	0.170 - 0.230
Silicon	Si %	0.600 max.
Manganese	Mn %	1.000 - 1.600
Phosphorus	P %	0.020 max.
Sulphur	S %	0.020 max.
Nickel	Ni %	0.800 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Normalizing & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	500 - 650
Yield Strength in Mpa	300 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	60 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
10213-3 1.6220	EN	European Union	Steel and Casting
10213-3 G 20 Mn 5	EN	European Union	Steel and Casting
10213-2 G20Mn5	UNI	Italy	Steel
10213-3 G20Mn5	AFNOR NF	France	Steel and Casting
36254 30 Mn 5	UNE	Spain	Steel
12 Mn 5	DIN	Germany	Steel
17175 19 Mn 5	DIN	Germany	Steel and Tubing

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.