GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10213 G20Mo5 I 1.5419

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10213 G20Mo5 I 1.5419 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry - Casting

Chemical Composition		
Carbon	C %	0.150 - 0.230
Silicon	Si %	0.600 max.
Manganese	Mn %	0.500 - 1.000
Phosphorus	P %	0.025 max.
Sulphur	S %	0.020 max.
Chromium	Cr %	0.300 max.
Molybdenum	Mo %	0.400 - 0.600
Nickel	Ni %	0.400 max.
Copper	Cu %	0.300 max.
Vanadium	V %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Normalizing or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	440 - 590
Proof Strength in Mpa	245 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	27 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10213-2 G20Mn5	UNI	Italy	Steel
5892-1 A 1	B.S.	United Kingdom	Steel
5892-4 B 7	B.S.	United Kingdom	Steel
5892-4 B 2	B.S.	United Kingdom	Steel
5892-4 B 5	B.S.	United Kingdom	Steel
1504 245	B.S.	United Kingdom	Casting
2074 L5A-2	AS	Australia	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

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.