GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - BS EN 10293 1.5419 (G20Mo5)

## Standard Specification for Steel Castings for general engineering uses

**Group - Ferrous Mild Steel Alloys**

**Sub Group - BS EN 10293 1.5419 (G20Mo5) 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 % | 0.150 - 0.230 |
| Silicon | Si % | 0.600 max. |
| Manganese | Mn % | 0.500 - 1.000 |
| Phosphorus | P % | 0.025 max. |
| Sulphur | S % | 0.020 max. |
| Molybdenum | Mo % | 0.400 - 0.600 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| Normalizing or Normalizing & Tempering or Quenching & Tempering |

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

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| SAE J 1249 4422 | AISI | USA | Steel |
| 10213-2 1.5419 | EN | European Union | Steel and Casting |
| 1.5419 | DIN | Germany | Steel |
| 10213-2 1.5419 | DIN | Germany | Steel and Casting |
| 17245 1.5419 | DIN | Germany | Steel and Casting |
| 3608 G 20 Mo 5 | UNI | Italy | Steel and Casting |
| 7317 G 22 Mo 5 | UNI | Italy | Steel and 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.