



Material - ASTM A 29 5145

Standard Specification for Steel Castings for General Engineering Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 29 5145 Steel Castings for General Engineering Purposes

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

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|---------------|---|----------|
| Carbon | C % | 0.430 - 0.480 | | |
| Silicon | Si % | 0.150 - 0.350 | As Cast or Annealing or Normalizing or Hardening and Tempering | |
| Manganese | Mn % | 0.700 - 0.900 | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.040 max. | | |
| Chromium | Cr % | 0.700 - 0.900 | | |
| Aluminium | Al % | 0.020 min. | | |
| Copper | Cu % | 0.350 max. | | |
| Molybdenum | Mo % | 0.060 max. | Mechanical Properties | |
| Niobium | Nb % | 0.015 | Tensile Strength in Mpa | 650 max. |
| Nickel | Ni % | 0.250 max. | Yield Strength in Mpa | - |
| Vanadium | V % | 0.020 min. | Elongation in % | - |
| Iron | Fe % | Balance | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impac <mark>t in Joule</mark> | - |

| Cross Reference Table | | | | |
|-----------------------|----------|---------|------------------------------|--|
| Material | Standard | Country | Grade Belong to the Industry | |
| BW2 | BS | British | Casting | |
| BW3 | BS | British | Casting | |
| BW4 | BS | British | Casting | |
| SKS 43 | JIS | Japan | Casting | |
| 1.2833 | DIN | Germany | Casting | |
| 5145 | SAE | USA | Casting | |
| 5145 | AISI | USA | 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

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