

Material: JIS SKS 43

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: JIS SKS 43 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 % | 1.000 - 1.100 | As Cast or Annealing or Normalizing or Hardening and Tempering | |
| Silicon | Si % | 0.100 - 0.300 | | |
| Manganese | Mn % | 0.100 - 0.400 | | |
| Phosphorus | P % | 0.030 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 0.200 max. | | |
| Copper | Cu % | 0.250 max. | | |
| Nickel | Ni % | 0.250 max. | | |
| Vanadium | V % | 0.100 - 0.200 | | |
| Iron | Fe % | Balance | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | - |
| - | - | - | Yield Strength in Mpa | - |
| - | - | - | Elongation in % | - |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | 212 max. |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| BW2 | BS | British | Casting |
| BW3 | BS | British | Casting |
| BW4 | BS | British | Casting |
| 1.2833 | DIN | Germany | Casting |
| 5145 | SAE | USA | Casting |
| 5145 | AISI | USA | Casting |
| A 29 5145 | ASTM | USA | Casting |

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