

Material: SAE D4512

Standard Specification For Ductile Iron Castings

Group: Ferrous SG Iron / Ductile Iron Alloys

Sub Group: SAE D4512 Ductile Iron Castings

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | |
|----------------------|------|---------------|
| Carbon | C % | 3.200 - 4.100 |
| Silicon | Si % | 1.800 - 3.000 |
| Manganese | Mn % | 0.100 - 1.000 |
| Phosphorus | P % | 0.015 - 0.100 |
| Sulphur | S % | 0.005 - 0.035 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|----------------|
| As-Cast |

| Mechanical Properties | |
|-------------------------|-----------|
| Tensile Strength in Mpa | 448 min. |
| Yield Strength in Mpa | 310 min. |
| Elongation in % | 12 min. |
| Reduction of Area in % | - |
| Hardness in BHN | 156 - 217 |
| Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| JS 450-10 | ISO | International | Casting |
| JS 450-10 | AS | Australia | Casting |
| A 536 65-45-12 | ASTM | USA | Casting |
| D450 | SAE | USA | Casting |
| EN-GJS-450-10 | BS | British | Casting |
| EN-JS1040 | UNE | Spain | Casting |
| 5.3107 | DIN | Germany | Casting |

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