



Material - UNE AM8Ni14

Standard Specification for Ferritic Casting Steels for Low Temperatures

Group - Ferrous Mild Steel Alloys

Sub Group - UNE AM8Ni14 Ferritic Casting Steels for Low Temperatures

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

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|---------------|--|-----------|
| Carbon | C % | 0.150 max. | Normalising + Tempering or Hardening + Tempering | |
| Silicon | Si % | 0.300 - 0.600 | | |
| Manganese | Mn % | 0.500 - 0.800 | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.035 max. | | |
| Nickel | Ni % | 3.000 - 4.000 | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| | | | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 485 - 655 |
| - | - | - | Yield Strength in Mpa | 275 min. |
| - | - | - | Elongation in % | 24 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| SA-352 Grade LC3 | ASME | USA | Casting |
| 1.5638 | DIN | Germany | Casting |
| 1.5638 | EN | European Union | Casting |
| 503-490 | BS | British | Forging |
| J31550 | UNS | USA | Casting |
| G12Ni14 | UNI | Italy | Casting |
| A352 LC3 | ASTM | 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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