



## Material - UNE AM8Ni18

### Standard Specification for Ferritic Casting Steels for Low Temperatures

Group - Ferrous Mild Steel Alloys

Sub Group - UNE AM8Ni18 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 % | 4.000 - 5.000 |  |           |
| 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 %                           | 35 min.   |
| -                    | -    | -             | Hardness in BHN                                  | -         |
| -                    | -    | -             | Impact in Joule                                  | -         |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| SA-352 Grade LC4      | ASME     | USA     | Casting                      |
| J14500                | UNS      | USA     | Casting                      |
| J14501                | UNS      | USA     | Casting                      |
| F.8375                | UNE      | Spain   | Casting                      |
| A575 B4N B4Q          | ASTM     | USA     | Casting                      |
| A352 LC4              | 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](mailto:marketing@gravitycastindia.com)**

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