

# Material: UNS D51150

## Standard Specification for Alloy Steel Casting

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** UNS D51150 Alloy steel casting

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

**Grade Belongs to the Industry:** Casting

| Chemical Composition |      |            | Heat Treatment                                    |          |
|----------------------|------|------------|---|----------|
| Phosphorus           | P %  | 0.050 max. | Annealing or Normalizing or Hardening + Tempering |          |
| Sulphur              | S %  | 0.050 max. |   |          |
| Iron                 | Fe % | Balance    |   |          |
| -                    | -    | -          |   |          |
| -                    | -    | -          |   |          |
| -                    | -    | -          |   |          |
| -                    | -    | -          |   |          |
| -                    | -    | -          |   |          |
| -                    | -    | -          |   |          |
| -                    | -    | -          |   |          |
|                      |      |            | Mechanical Properties                             |          |
| -                    | -    | -          | Tensile Strength in Mpa                           | -        |
| -                    | -    | -          | Yield Strength in Mpa                             | 793 min. |
| -                    | -    | -          | Elongation in %                                   | -        |
| -                    | -    | -          | Reduction of Area in %                            | -        |
| -                    | -    | -          | Hardness in BHN                                   | -        |
| -                    | -    | -          | Impact in Joule                                   | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| A148 Grade 80-50      | ASTM     | USA     | Casting                      |
| A148 Grade 90-60      | ASTM     | USA     | Casting                      |
| A148 Grade 105-85     | ASTM     | USA     | Casting                      |
| A148 Grade 115-95     | ASTM     | USA     | Casting                      |
| A148 Grade 160-145    | ASTM     | USA     | Casting                      |
| Grade 135-125         | ASTM     | USA     | Casting                      |
| A148 Grade 130-115    | ASTM     | USA     | Casting                      |

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