

## Material: ASTM B 757 N06110

### Standard Specification for Nickel-Chromium-Molybdenum-Tungsten-Alloys Pipe

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASTM B 757 N06110 Nickel-Chromium-Molybdenum-Tungsten-Alloys Pipe

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

**Grade Belongs to the Industry:** Pipe

| Chemical Composition |      |                 | Heat Treatment                       |          |
|----------------------|------|-----------------|--------------------------------------|----------|
| Carbon               | C %  | 0.150 max.      | As-Cast or Annealing or Age Hardning |          |
| Silicon              | Si % | 1.000 max.      |                                      |          |
| Manganese            | Mn % | 1.000 max.      |                                      |          |
| Chromium             | Cr % | 28.000 - 33.000 |                                      |          |
| Sulphur              | S %  | 0.015 max.      |                                      |          |
| Molybdenum           | Mo % | 9.000 - 12.000  |                                      |          |
| Phosphorus           | P %  | 0.015 max.      |                                      |          |
| Copper               | Cu % | 0.500 max.      |                                      |          |
| Niobium              | Nb % | 1.000 max.      |                                      |          |
| Tungsten             | W %  | 1.000 - 4.000   |                                      |          |
| Iron                 | Fe % | 1.000 max.      |                                      |          |
| Aluminium            | Al % | 1.000 max.      |                                      |          |
| Titanium             | Ti % | 1.000 max.      |                                      |          |
| Nickel               | Ni % | 51.000 min.     |                                      |          |
| -                    | -    | -               |                                      |          |
|                      |      |                 | Mechanical Properties                |          |
|                      |      |                 | Tensile Strength in Mpa              | 655 min. |
|                      |      |                 | Yield Strength in Mpa                | 310 min. |
|                      |      |                 | Elongation in %                      | 60 min.  |
|                      |      |                 | Reduction of Area in %               | -        |
|                      |      |                 | Hardness in BHN                      | -        |
|                      |      |                 | Impact in Joule                      | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| B 564 N06110          | ASTM     | USA     | Forging                      |
| B 755 N06110          | ASTM     | USA     | Plate, Sheet and Strip       |
| B 756 N06110          | ASTM     | USA     | Rod and Bar                  |
| B 758 N06110          | ASTM     | USA     | Tube                         |
| B 759 N06110          | ASTM     | USA     | Pipe and Tube                |
| SB-564 N06110         | ASME     | USA     | Forging                      |
| N06110                | UNS      | USA     | Forging                      |

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