

## Material - ASTM B 759 N06110

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

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 759 N06110 Nickel-Chromium-Molybdenum-Tungsten Alloys Pipe and Tube

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

Grade Belongs to the Industry - Pipe and Tube

| 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.      | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 655 min.<br>Yield Strength in Mpa 310 min.<br>Elongation in % 60 min.<br>Reduction of Area in % -<br>Hardness in BHN -<br>Impact in Joule - |  |
| 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.     |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |

| 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 757 N06110          | ASTM     | USA     | Pipe                         |
| B 758 N06110          | ASTM     | USA     | Tube                         |
| SB-564 N06110         | ASME     | USA     | Forging                      |
| N06110                | UNS      | USA     | Forging                      |

For any further inquiries, please do not hesitate to contact us. You may visit our website at [AMTECH TECHNOCAST PVT. LTD.](http://AMTECH TECHNOCAST PVT. LTD.), call us at [+91 9879817994](tel:+919879817994), or email us at [manish@amtechtechnocast.com](mailto:manish@amtechtechnocast.com)

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