

# Material: ASTM A268 29-4-2

## Standard Specification for Seamless and Ferritic Stainless Steel Tubing for General Service

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASTM A268 29-4-2 Seamless and Welded Ferritic Stainless Steel Tubing for General Service

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

**Grade Belongs to the Industry:** Tube

| Chemical Composition |           |                 |
|----------------------|-----------|-----------------|
| Carbon               | C %       | 0.010 max.      |
| Silicon              | Si %      | 0.200 max.      |
| Manganese            | Mn %      | 0.300 max.      |
| Phosphorus           | P %       | 0.025 max.      |
| Sulphur              | S %       | 0.020 max.      |
| Chromium             | Cr %      | 28.000 - 30.000 |
| Molybdenum           | Mo %      | 3.500 - 4.200   |
| Nickel               | Ni %      | 2.000 - 2.500   |
| C+N                  | C % + N % | 0.025 max.      |
| Nitrogen             | N %       | 0.020 max.      |
| Copper               | Cu %      | 0.150 max.      |
| Iron                 | Fe %      | Balance         |
| -                    | -         | -               |
| -                    | -         | -               |
| -                    | -         | -               |

| Heat Treatment                                    |  |
|---|--|
| Normalizing or Annealing or Hardening + Tempering |  |

| Mechanical Properties   |          |
|-------------------------|----------|
| Tensile Strength in Mpa | 550 min. |
| Yield Strength in Mpa   | 415 min. |
| Elongation in %         | 11 min.  |
| Reduction of Area in %  | -        |
| Hardness in HB          | 207 max. |
| Impact in Joule         | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| S44800                | UNS      | USA     | Plate, Sheet and Strip       |
| SA-731 29-4-2         | ASME     | USA     | Casting                      |
| A497 S44800           | ASTM     | USA     | Plate, Bar and Forging       |
| A511 29-4-2           | ASTM     | USA     | Tube                         |
| A791 Grade 29-4-2     | ASTM     | USA     | Plate, Sheet and Strip       |
| SA-240 Type 29-4-2    | ASME     | USA     | Plate, Sheet and Strip       |
| A731 29-4-2           | ASTM     | USA     | Casting                      |

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