

Material Test Report

Flowtrend 316L Manways

This manway meets the properties of ANSI 316L. The actual elemental composition shown in the table is from the Mill Test Report provided by the manufacturer and only applies to the product contact areas.

| Heat # | Type | Size (mm) | Material | % | C | Mn | P | S | Si | Cr | Ni | Mo | Hardness (RB) | Yield Strength (MPa) | Tensile Strength (MPa) | Elongation (%) | Raw Material Specification |
|---------|------|-----------------|----------|--------|-------|------|-------|-------|------|-------|-------|------|---------------|----------------------|------------------------|----------------|----------------------------|
| | | | | Min % | - | - | - | - | 16.0 | 10.0 | 2.00 | | | | | | |
| | | | | Max % | 0.03 | 2.0 | 0.045 | 0.03 | 0.75 | 18.0 | 14.0 | 3.00 | | | | | |
| S643135 | Coil | 50 X 50 X 2.94 | 316L | Actual | 0.02 | 1.37 | 0.026 | 0.030 | 0.45 | 16.70 | 10.06 | 2.08 | 84.00 | 275 | 604 | 56 | ASTM A240/A240M-2018:316L |
| S671449 | Coil | 50 X 50 X 2.94 | 316L | Actual | 0.014 | 1.09 | 0.025 | 0.002 | 0.62 | 16.56 | 10.06 | 2.04 | 76.50 | 271 | 634 | 54 | GB 24511-2009 S31603 |
| S643529 | Coil | 50 X 50 X 4.00 | 316L | Actual | 0.020 | 1.39 | 0.026 | 0.030 | 0.46 | 16.48 | 10.09 | 2.08 | 82.00 | 278 | 601 | 54 | ASTM A240/A240M-2018:316L |
| 235312 | Coil | 50 X 50 X 12.00 | 316L | Actual | 0.013 | 1.38 | 0.024 | 0.002 | 0.59 | 16.08 | 10.22 | 2.04 | 83.00 | 280 | 580 | 67 | GB 24511-2009 S31603 |
| S681144 | Coil | 6X1550XC | 316L | Actual | 0.013 | 1.38 | 0.024 | 0.00 | 0.59 | 16.08 | 10.22 | 2.04 | 83.00 | 280 | 580 | 68 | ASTM A240/A240M-2018:316L |

All items that are supplied by Flowtrend, an ISO 9001 certified company, are also quality inspected per FT-QA-001, *Product Receiving Inspection and Acceptance Procedure* prior to release to ensure that products meet the product specifications and acceptable quality standards, including material type.

Sunil Samuel

Sunil Samuel, Operations Manager
Flowtrend, Inc.
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