



304/L & 316/L STAINLESS STEEL TUBING

Due to its excellent general corrosion resistance, high strength-to-weight ratio and remarkable ductility, stainless steel has become the predominant material choice for hydraulic and instrumentation tubing. The two grades of stainless steel tubing that are most commonplace are dual certified 304/L and 316/L. Often viewed as commodity grades, 304/L and 316/L can be found in use in a multitude of applications within countless industries worldwide. Whether it be seamless or welded, domestic or import, or 20 foot sticks or long length coils, stainless steel tubing is our core competency. It's not only in our name, it's at the heart of what we do.

PRODUCTION SPECIFICATIONS

ASME SA213/ASTM A213 (SEAMLESS), ASME SA249/ASTM A249 (WELDED), ASTM A269

| 304/L (UNS S30400/UNS S30403) CHEMICAL COMPOSITION % (MAX.) | | | | | | | |
|---|-----------|-------------|--------|---------|----------|-----------|------------|
| C | Mn | P | S | Si | Ni | Cr | Mo |
| Carbon | Manganese | Phosphorous | Sulfur | Silicon | Nickel | Chromium | Molybdenum |
| 0.035 | 2.00 | 0.045 | 0.030 | 1.00 | 8.0-12.0 | 18.0-20.0 | N/A |

| 316/L (UNS S31600/UNS S31603) CHEMICAL COMPOSITION % (MAX.) | | | | | | | |
|---|-----------|-------------|--------|---------|-----------|-----------|------------|
| C | Mn | P | S | Si | Ni | Cr | Mo |
| Carbon | Manganese | Phosphorous | Sulfur | Silicon | Nickel | Chromium | Molybdenum |
| 0.035 | 2.00 | 0.045 | 0.030 | 1.00 | 10.0-14.0 | 16.0-18.0 | 2.0-3.0 |

| DIMENSIONAL TOLERANCES | | |
|------------------------|--------------|----------------|
| OUTSIDE DIAMETER (OD) | OD TOLERANCE | WALL TOLERANCE |
| UP TO 1/2" | +/- .005" | +/- 15% |
| 1/2" TO 1 1/2", EXCL | +/- .005" | +/- 10% |
| 1 1/2" TO 3 1/2", EXCL | +/- .010" | +/- 10% |
| 3 1/2" TO 5 1/2", EXCL | +/- .015" | +/- 10% |

| SIZE RANGE | |
|-----------------------|----------------|
| OUTSIDE DIAMETER (OD) | WALL THICKNESS |
| 1/16" - 4" | .010" - .375" |

FABRICATION

304/L and 316/L stainless steel has excellent fabrication properties. Its malleability allows it to be easily formed for flaring, bending and coiling. Good machinability and the low sulfur content promotes excellent weldability in applications requiring it.



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