

OUR SOLUTION IS SEAMLESS.

Safe and Long Length High Pressure Coil Tubing

How HandyTube Provides a Safer Product while Saving Time and Money

Less Fittings and Leakage Points = Reduced Installation Time and Greater Reliability

Before HandyTube: Straight Tubing

Requires fittings every 6 meters.



HandyTube Advantage: Coiled Tubing

Safer installation with less weld joints and reduced installation time.



Advantages of HandyTube Coiled Tubing

- **Hydrostatic Testing**
100% Hydrotested before shipment ensuring structural integrity of the entire order.
- **PMI Testing**
100% PMI tested prior to shipment, eliminating potential for alloy mix-ups.
- **Packaging**
Heat treated wooden spools, which offer a smaller storage footprint and are less prone to carrier damage.

Typical Size Ranges

- 0.020" – 1"
- 0.102 mm – 25.4mm

No Welded Worries

- ✗ Strip edge damage before welding, resulting in leaks and holes
- ✗ Strip edge contamination with lubricant, creating porosity
- ✗ Misaligned strip edges and/or off-seam condition, resulting in incomplete penetration
- ✗ Improper adjusted or worn weld box rolls, causing improper weld seam thickness
- ✗ Weld bead protrusion into the tube's inside diameter, impeding flow

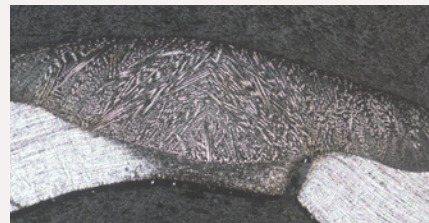


Figure 2a. Misaligned strip edges create an off-seam condition and incomplete penetration.

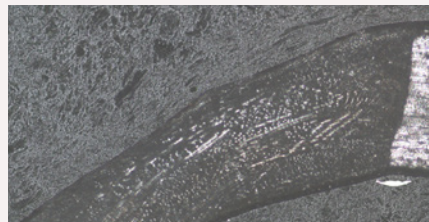


Figure 2b. Improperly adjusted or worn weld box rolls cause incorrect weld seam thickness.

Just Seamless Success

- ✓ 20% Greater ASME working pressure rating than welded equivalent
- ✓ Complete Heat Traceability
- ✓ Homogeneous Cross-section
- ✓ No Radiograph Inspections Required
- ✓ Certified to ASTM, AMS, and MILT Certifications



Seamless Coil Tubing for CNG Fueling Stations

HandyTube's CNG Tubing is designed to withstand extreme pressures associated with transporting compressed gas. Conventional stations use short straight length tubing to transport CNG. HandyTube's CNG Tubing is truly seamless and provided in continuous lengths without any longitudinal or orbital welds to meet the unique requirements of each station, eliminating unnecessary labor associated with installing straight length. HandyTube's CNG Tubing is safe, reliable and saves costs during installation and during fill time.

Certifications

- ASTM A269, Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service
- ASTM A213, Standard Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes
- Pressure Equipment Directive (PED) 2014/68/EU
- ISO 9001
- NACE MR0175
- EN 10204 3.1



Specifications

Long-length seamless coils minimize the need for coupling multiple shorter lengths. HandyTube's three unique CNG Tubing solutions are listed below:

Part Number	Outer Diameter [OD]	OD Tolerance	Wall Thickness [WT]	WT Tolerance	Design Pressure*
C316L0500S-070	0.500"	±0.005"	0.070"	±10%	5,500 psi
C316L0750S-104	0.750"	±0.005"	0.104"	±10%	5,500 psi
C316L1000S-139	1.000"	±0.005"	0.139"	±10%	5,500 psi

**Internal design gage pressure calculated per ASME B31.3 for temperatures -425 to 300°F*

Chemical Composition [%] of UNS S31600/S31603 [TP 316/316L 2.5% Min. Mo.]

C	Mn	P	S	Si	Ni	Cr	Mo	N
0.035	2.00	0.045	0.030	1.00	10.0-14.0	16.0-18.0	2.5-3.0	0.04

**All limits are maximum unless otherwise specified.*

Mechanical Properties of CNG Tubing

Min. Tensile Strength	Min. Yield Strength	Min. Elongation in 2"	Max. Hardness
75 ksi	30 ksi	35%	80 HRB



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