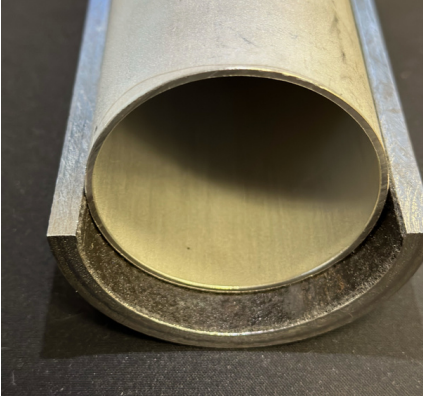


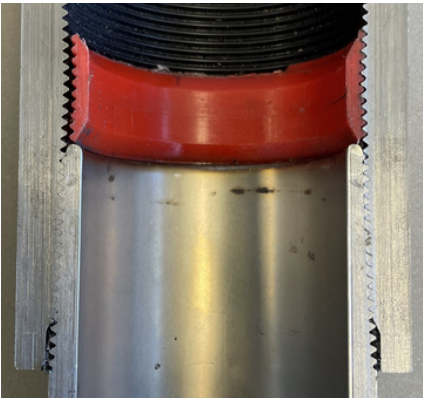
ZLoy316 is made of bimetallic construction, featuring a carbon steel base and stainless steel inner lining. This gives it improved mechanical strength and durability, as well as excellent chemical and corrosion protection.



Features

Technical specifications and physical properties.

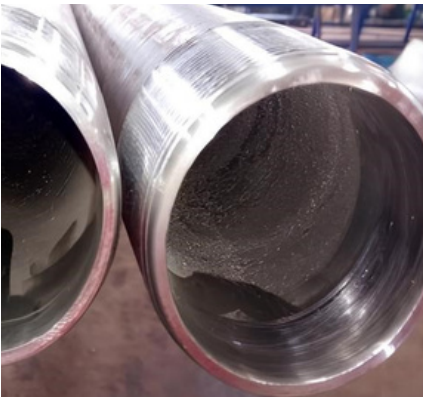
- **Material Construction:** A bimetallic assembly featuring a structural carbon steel outer body and a high-strength, ductile stainless steel (SS316L) inner liner.
- **Bonding Technology:** Utilizes a hydraulic composite method to ensure uniform compression and a powerful bond between the liner and outer pipe.
- **Thermal Thresholds:** Low thermal expansion rate allows it to withstand extreme temperatures up to 350°C.
- **Connection Defense:** Pin-ends are laser welded at the apex for a complete high-pressure seal, while threads and couplings feature a nitrided spray metal coating for maximum joint protection.
- **Flexible Availability:** Offered in standard API sizes and custom variations.



Benefits

The value proposition and operational advantages.

- **Chloride & Sour Gas Defense:** Greatly improves resistance to localized pitting attacks from alkaline chlorides, as well as H₂S and CO₂ acid gases.
- **Mechanical Integrity:** Delivers superior mechanical properties, including reliable impact resistance, high structural tensile strength, and increased material elongation limits.
- **Reduced Wear:** Smooth alloy interior results in minimal internal abrasion and sliding wear over long production cycles.
- **Lower Maintenance Overheads:** Directly drives down the frequency of interventions, well workovers, and premature tubing replacements.



Applications

Where and when to use ZLoy316.

- **High-Temperature / High-Corrosion Wells:** Chosen for severe downhole tubing strings tracking through corrosive fluid environments.
- **Thermal EOR & Green Energy:** Ideal for Steam Assisted Gravity Drainage (SAGD) and geothermal production wells.
- **Chloride Risk Zones:** Deployed in wells or formations carrying high potential exposure to localized chloride attacks.
- **Harsh Processing Environments:** Used in chemical/petrochemical processing loops, dealing with abrasive water compositions or environmental criteria that trigger stress corrosion cracking.

Stainless steel; line your walls with ZLoy316

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PRODUCT SPECIFICATIONS

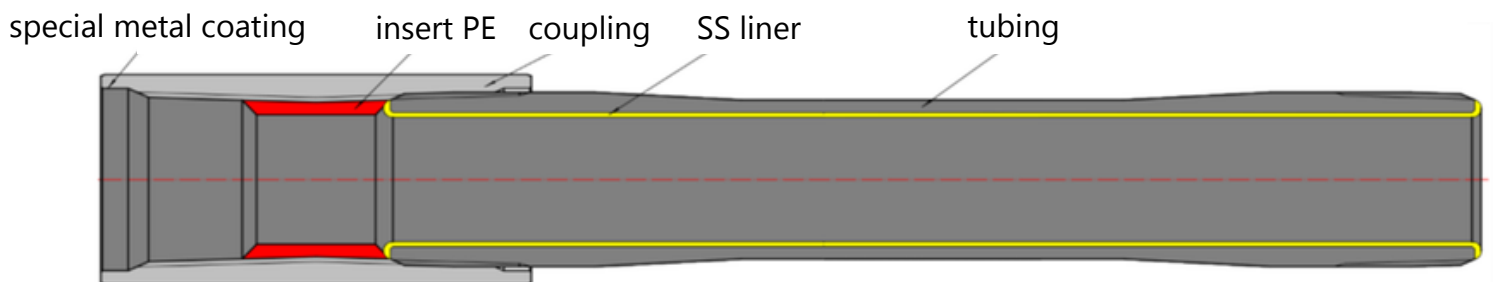
API Standard Stainless Steel Lined Tubing:

Tubing OD (mm)	Wall Thickness (mm)	Weight (kg/m)	Coupling OD (mm)	Stainless Steel Thickness (mm)	Tubing ID (mm)	SS Liner ID (mm)
48.26	3.68	4.32	63.5	1	38.9	36.52
60.32	4.83	6.99	77.8	1	48.66	46.28
73.02	5.51	9.67	93.17	1	60.0	57.62
88.9	6.45	13.84	114.3	1.5	73.0	69.82

Non-API Custom Stainless Steel Lined Tubing:

Tubing OD (mm)	Wall Thickness (mm)	Weight (kg/m)	Tubing ID (mm)	Coupling OD (mm)	Hydrostatic Pressure (MPa)	Pipe Body Yield Strength (kN)	Joint Connection Strength (kN)	SS Liner ID (mm)	API Spec Correspondence
52.4	3.96	4.84	44.48	63.5	45.50	228.0	165.0	38.52	1.9 EU
77.5	5.25	9.85	67.0	93.17	60.00	657.8	490.5	59.62	2-7/8 EU
89.0	5.0	10.45	79.0	107.95	49.50	728.0	513.0	72.82	3-1/2 EU
92.0	6.5	13.78	79.0	114.3	62.40	661.0	641.0	72.82	3-1/2 EU

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