



Cobalt Alloy Overlay - 316L Stainless Steel Spool

U.W.O. was awarded a project to fabricate and weld overlay this intricate spool design to meet the client's tight dimensional restrictions and tolerances. UWO assisted in reducing down time and extending service life with our specialized capabilities.

Overlay alloy: 1Layer ER CCoCR-A, Stellite #6®, 0.125" (1/8") min thickness due to severe erosion problems combined with corrosion issues.

Pipe Spool: Reducing, Concentric, 6"x3", Sch. 80, Flanged, 316L SS/Stellite #6®, 4"x41-1/2" Long, Sch. 80, 316L Stainless Steel, Feed Solutions. Class 600# Flanges.

Testing included: 100% LPI, 100% RT, Hydro-test

Parts supplied: In accordance with ASME B31.3



KEYS TO SUCCESS

- For over 25 years, we have been supplying solutions to the energy markets including: Oil & Gas, Pulp & Paper, Petrochemicals, Power, Pipeline, Mining, and Fabrication.
- U.W.O. is dedicated to providing high quality products for their customers, best value, and a knowledgeable team.
- Our weld overlays can be applied to any weldable base material, including;
- Carbon Steel, Chrome Moly, Low Alloy Steel, Stainless Steel, Inconel®, and Monel®
- Our Overlays include; 300-400 Series Stainless Steel, 904L, Aluminum Bronze, Stellite® #6 #1 #712, Tungsten and Chromium Carbide, Duplex Stainless 2205 2507, Hastelloy® C20 C22 C276 686, Monel® 400, Alloy 600 625 825, Nickel 201, Copper Nickel 70/30.
- By using cutting-edge welding equipment and procedures, U.W.O. provides reliable corrosion and erosion resistance for all pre-fabricated needs. Our overlays are applied with S.A.W., S.M.A.W., G.T.A.W., G.M.A.W., and Strip processes.
- We also offer complete spool assembly for any process piping requirement. Our quality assurance increases up-time, enhances performance, reduces maintenance, and adds value to your weld overlays.

COMPREHENSIVE SERVICE CAPABILITIES

Universal Weld Overlays Inc. (U.W.O.), a division of ClearStream Energy Services, is a leading experienced and proven service provider for weld overlays of pre-fabricated components in corrosive and erosive environments.

Size & Shape

- Pipe: 1.5" dia. (38mm) I.D. and up
- Up to 10'0" (3M) in single pieces
- Fittings: 1.5" dia. (38mm) I.D. and up
- Nozzles, Flanges, Blinds, Tees, Reducers,
- Elbows (90deg. & 190 deg. LR or SR)
- Vales, Tube sheets, Couplings,
- Vessel Heads & Shells, Vessel drains etc.

Inspection & Testing

- In-house LPI, ASNT, CGSB Technicians,
- Verified Inspectors, Material Traceability
- NDE, RT, UT, MT, VT, HT (as required)
- PWHT, Hydro Testing, Chemical Analysis,
- Ferrite Testing

In-house Machining

- Gasket Facing, Beveling, 60" dia. Cap.

Receiving & Shipping

- Worldwide Broker, Imports & Exports
- Packaging and Crating,
- Worldwide shipping, Air, Land, Sea

Standards

- ASME Div. 1 & 2
- ASME B31.1 & B31.3

Quality Certification

- "U" Stamp #28525
- "U2" Stamp #30383
- "S" Stamp #44867

