



Armaturenbau und -Technik GmbH

Technical Data Sheet

Metal-to-Metal Ball Valve sealing system

| | |
|---|--|
| Coating Designation | ATEC 461 |
| Description | Metallic Coating of the Cobalt-Alloy Stellite 6 produced by High Velocity Oxy-Fuel spraying |
| Composition | Co 28Cr 4.5W 1.2C |
| Hardness | 500-650 HV _{0,3} |
| Porosity | < 2 % |
| Coating Thickness | 200–250 µm |
| Temperature Limitation | max. 700 °C |
| Bond Strength | > 70 MPa (EN 582) |
| Mechanical and Chemical Resistance | Resistant to abrasion, erosion, sliding wear and fretting over a wide temperature range and in corrosive environments. High strength and good oxidation resistance at elevated temperatures. Highly resistant to nitric and acetic acid at room temperature due to passivation. |
| General Properties | The coating is applied by the High Velocity Oxy-Fuel spray process and is characterized by high density and bond strength. The coating can be applied on nearly all industrial used metallic materials. Due to the relatively low thermal load during the coating process no impairment or metallurgical transformation of the base material arises. Smooth surface finish is achieved by grinding and lapping or polishing. |