



Armaturenbau und -Technik GmbH

Technical Data Sheet

Metal-to-Metal Ball Valve sealing system

Coating Designation	ATEC 168
Description	Metallic Hardalloy Coating (Tribaloy 800) produced by High Velocity Oxy-Fuel spraying
Composition	Co 28Mo 17Cr 3.5Si
Hardness	550–650 HV _{0,3}
Porosity	< 3 %
Coating Thickness	200–250 µm
Temperature Limitation	max. 800 °C
Bond Strength	> 70 MPa (EN 582)
Mechanical and Chemical Resistance	Excellent resistance to abrasion, 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 acids and hot gas corrosion.
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.