



Armaturenbau und -Technik GmbH

Technical Data Sheet

Metal-to-Metal Ball Valve sealing system

Coating Designation	ATEC 404
Description	Nickel-Hardalloy produced by Flame Spraying and Fusing
Composition	Ni Cr Fe Si BC
Hardness	650–750 HV 0,3 (58–62 HRC)
Porosity	nearly non porous
Coating Thickness	0,3–0,8 mm
Temperature Limitation	max. 500 °C
Bond Strength	metallurgical bond to the base material
Mechanical and Chemical Resistance	Excellent resistance to abrasion, particle erosion and fretting. High strength also at elevated temperatures. Good corrosion resistance.
General Properties	As a result of the spray and fuse process the coating is dense and has very high hardness and bond strength. The coating can be applied on most stainless, duplex and low carbon steels and to special alloys like hastelloy or inconel. Smooth surface finish is achieved by grinding and lapping or polishing.