



Armaturenbau und -Technik GmbH

## **Technical Data Sheet**

### **Metal-to-Metal Ball Valve sealing system**

<b>Coating Designation</b>	ATEC 404
<b>Description</b>	Nickel-Hardalloy produced by Flame Spraying and Fusing
<b>Composition</b>	Ni Cr Fe Si BC
<b>Hardness</b>	650–750 HV 0,3 (58–62 HRC)
<b>Porosity</b>	nearly non porous
<b>Coating Thickness</b>	0,3–0,8 mm
<b>Temperature Limitation</b>	max. 500 °C
<b>Bond Strength</b>	metallurgical bond to the base material
<b>Mechanical and Chemical Resistance</b>	Excellent resistance to abrasion, particle erosion and fretting. High strength also at elevated temperatures. Good corrosion resistance.
<b>General Properties</b>	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.