Armaturenbau und -Technik GmbH

Technical Data Sheet
Metal-to-Metal Ball Valve sealing system

Coating Designation	ATEC 462
Description	Cobalt-Hardalloy (Stellite SF1) produced by the spray and fuse process
Composition	Co 19Cr 13W 13Ni 3Fe 3Si 2.2B 1.3C
Hardness	600-700 $HV_{0,3}$ (54–58 HRC)
Porosity	nearly non porous
Coating Thickness	0,3-0,8 mm
Temperature Limitation	max. 700 °C
Bond Strength	metallurgical bond to the base material
Mechanical and Chemical Resistance	Excellent resistance 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. High corrosion resistance, specially to acids due to passivation.
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.

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