TECHNICAL DATA

STELLITE™ SF6 ALLOY

STELLITE™ COBALT-BASED ALLOYS consists of complex carbides in an alloy matrix. They are resistant to wear, galling, and corrosion and retain these properties at high temperatures. Their exceptional wear resistance is due mainly to the unique inherent characteristics of the hard carbide phase dispersed in a CoCr alloy matrix.

STELLITE™ SF6 is a hardfacing alloy for application by the spray- fuse process giving a machinable deposit of similar hardness to Stellite 6. Coatings exhibit good sliding wear and abrasion resistance. It is usually used in pump and rotating seals; valve faces and spindles.

NOMINAL CHEMICAL COMPOSITION (MASS%)

ALLOY	Co	Cr	W	C	Ni	B	Si	Others
Stellite™ SF6	Bal.	19	7,5	0,80	14	1,70	2,60	Fe, Mn

PHYSICAL PROPERTIES

ALLOY	Hardness	Density	Melting Range
Stellite™ SF6	40 - 48 HRC	~ 8,33 g/cm^3	~ 1080– 1150°C

NOMINAL HOT HARDNESS (HV resp. DPH) AS Deposited and fused

20°C	100°C	200°C	300°C	400°C	500°C	600°C	700°C	800°C	900°C
450	450	439	418	396	365	305	239	146	64

PRODUCT FORMS

Consumables for Cladding / Hardfacing			
Powder	HVOF Spraying	Powder Welding	Spray & Fuse