Aflas® 75-compound 223002 - Technical Data Sheet

1. Introduction

Aflas® 223002 is made of Aflas® FA-100H, a FEPM rubber. Peroxide cured. This material has excellent resistance to acids, steam, hot water, hydraulic and brake fluids.

2. Product Description

Chemical Composition	:	Tetrafluorethylene + Propylene-Copolymer (FEPM)
Physical form	:	O-Rings / Mouldings
Colour	:	Black
Storage stability *	:	± 10 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	*Norm*	*Test Values*
Specific Weight	ASTM D 297	1,64
Hardness	ISO 868	75° ± 5° IRHD
Tensile Strength at break	ISO 37	18,6 MPa
Elongation at break	ISO 37	250%
Compression Set	ISO 815	
25% compression, 24h/200°C		45%
25% compression, 70h/150°C		36%
Heat Ageing 72h/200°C	ASTM D 573	
Hardness Change		+1°
Tensile Strength Change		-2%
Elongation Change		+4%

4. Temperature Resistance

- -10° to +250°C; short time +290°C
- TR10 (low temp. resistance): +2°C

5. Chemical Resistance

ASTM Oil n° 3	:	very good
ASTM Fuel C	:	unsatisfactory
Acetone	:	unsatisfactory
Crude oils	:	very good
Kerosin	:	very good
Sulphuric acids	:	very good
MEK	:	unsatisfactory
MTBE	:	fair
Water	:	very good
Steam, 200°C	:	very good

6. Advantages

- Good compression set
- Very good resistance to water, steam at high temperatures

7. Other Information

- FEPM components are combustible and decomposition products generate hydrogen fluoride and fluorinated olefins. Do not expose to temperatures in excess of 310°C.
- Contains 57% Fluorine.