

Aflas® 75-compound 223002 - Technical Data Sheet

1. Introduction

Aflas® 223002 is made of original 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 :	Tetrafluoroethylene + 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
Density	ISO 2781	1640 kg/m ³
Hardness	ISO 7619	75 ± 5 IRHD
Tensile Strength at break	ISO 37	16 MPa
Elongation at break	ISO 37	240%
Heat Ageing 70h/200°C	ISO 188	
Hardness Change	ISO 7619	+2 pt
Tensile Strength Change	ISO 37	-10%
Ultimate elongation	ISO 37	-15%
Steam Resistance 70h/180°C	ISO 1817	
Hardness shore A	ISO7619	-5 pt
Tensile Strength	ISO 37	-18%
Ultimate elongation	ISO 37	-22%
Volume		+6,5%

4. Temperature Resistance

- -5° to +200°C; short time +300°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

- Excellent heat resistance: Propylene unit is completely arranged between the neighboring tetrafluoroethylene units. This structure provides excellent heat resistance even with a lower fluorine content. It is possible to use Aflas™ continuously for three months at 230°C and 30 days at 260°C. It can be used at 300°C for a short time.
- Excellent chemical resistance: Because of its stable chemical structure, Aflas™ has very good chemical resistance against high concentration of acid/alkali/oxidant under high temperature. It is superior in this property to the conventional FKM.