

Aflas® 70-compound 223001 - Technical Data Sheet

1. Introduction

Aflas® 223001 is a Tetrafluoroethylene/Propylene Copolymer (FEPM). Cure system is Peroxide. This material has excellent resistance to acids, steam, hot water, brine, oils, lubricants and sour oil and gas. Resistant to all types of hydraulic fluids, all brake fluids and amine corrosion inhibitors. Popular in oilfield applications.



2. Product Description

Tetrafluorethylene + Propylene-Copolymer (FEPM) Chemical Composition:

Physical form O-Rings / Mouldings

Color Black Storage stability * : ± 10 years

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 868	70 ± 5 IRHD
Tensile Strength at break	ISO 37	16 MPa
Elongation at break	ISO 37	250%
Specific Weight	ISO 2781	1,58
Compression Set	ISO 815	
70h/200°C, on slab		40%
Heat Ageing 70h/260°C	ISO 188	
Hardness Change		-1°
Tensile Strength Change		-23%
Elongation Change		+31%
Immersion in steam at 80MPa 100h/288°C		
Hardness Change		-1%
Tensile Strength Change		-38%
Elongation Change		+45%

4. Temperature Resistance

- -10° to +200°C / short term: +200°C
- TR10 (low temp. resistance): +3°C

5. Chemical Resistance

ASTM Oil n° 3 : very good ASTM Fuel C unsatisfactory Acetone : unsatisfactory Crude oils : very good Kerosine 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 and high temperatures.







^{*:} Following ISO 2230 conditions