

**COMPOUND: F243 Viton® Extreme (VN)**  
**POLYMER TYPE: Fluorocarbon Rubber FKM75 (+/-5°)**

## Physical Properties

Property	Test Method	Units	Typical Values
COLOUR			Black
HARDNESS	ISO 48	°IRHD	70
TENSILE STRENGTH	ISO 37	MPa	18
MODULUS @ 100%	ISO 37	MPa	7
ELONGATION @ BREAK	ISO 37	%	230
TEAR STRENGTH	ISO 34	N/mm	-
SPECIFIC GRAVITY	ISO 2781	g/cm3	1.97
COMPRESSION SET (24 HRS @ 220°C)	ISO 815	%	35

## Description

Viton ETP (Extreme) can resist both aromatic hydrocarbons and alcohols, like high fluorine FKM. In addition it can offer good resistance to polar solvents like methyl ethyl ketone as well as both strong acids and bases. It has excellent resistance to hydrogen sulphide, making it a contender for sour environments in the oil and gas industries.

**Service Temperature: -10°C to 200°C. Peak Upper Temperature: +250°C.**

**\*Viton® is a registered trademark of DuPont Performance Elastomers**

## Air-Ageing

Property (After 168 Hours @ 250°C)	Test Standard	Units	Typical Values
HARDNESS CHANGE	ISO 48	°IRHD	-1
TENSILE CHANGE	ISO 37	%	-13
ELONGATION CHANGE	ISO 37	%	+18

These properties should not be regarded as specifications, but only as typical properties of the material described. It is intended for use by persons having technical skills and understanding of the seal and gasket design. Since the conditions of use are outside our control, nor have we designed the product shape, we can make no warranties, express or implied and assume no liability in connection with any use of this information.

Since development and improvement of compounds is a continuing process, Gapi reserves the right to modify their composition and characteristics.

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### *Absorption Test*

Property (After 168 Hours @ 23°C)	Test Standard	Units	Typical Values
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#### **Resistance to MEK**

HARDNESS CHANGE	ISO 1817	°IRHD	-16
TENSILE CHANGE	ISO 1817	%	-45
ELONGATION CHANGE	ISO 1817	%	-11
VOLUME CHANGE	ISO 1817	%	+21

Property (After 168 Hours @ 100°C)	Test Standard	Units	Typical Values
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#### **Resistance to POTASSIUM HYDROXIDE 30% SOLUTION IN WATER**

HARDNESS CHANGE	ISO 1817	°IRHD	-1
TENSILE CHANGE	ISO 1817	%	-6
ELONGATION CHANGE	ISO 1817	%	-2
VOLUME CHANGE	ISO 1817	%	+2

### *Low Temperature*

Property (Geham Torsional Modulus)	Test Standard	Units	Typical Values
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Temperature at 70 MPa	ISO 1432	°C	-7
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