



THE SEALING INNOVATION TIMES

FKM original Viton® compound 514323 developed for biodiesels

Biodiesels are an esterification of fatty acids with vegetable oils as origin. The presence of water can reverse this chemical reaction.

Standard Viton® copolymers will swell and standard fillers such as metaloxides will be attacked.

ERIKS MDT (Material Development Team) developed a special compound 514323 based on an original Viton®.

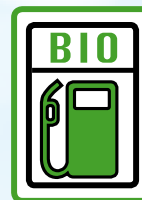
Extensive tests at ERIKS MTC (Material Technology Center) assure you a constant quality for biodiesel, pure or mixed.



Genuine Viton® 75-compound 514323 black - Technical Data Sheet

1. Introduction

Original Viton® 514323-compound is based on a 100% Genuine Viton®-F polymer according the APA technology. This compound is specially formulated for bio-fuels. Products out of this compound are being made according to strict guidelines of DuPont Performance Elastomers. This guarantees a constant high quality level. All products carry the specific, easy recognizable emblem on their package.



2. Product Description

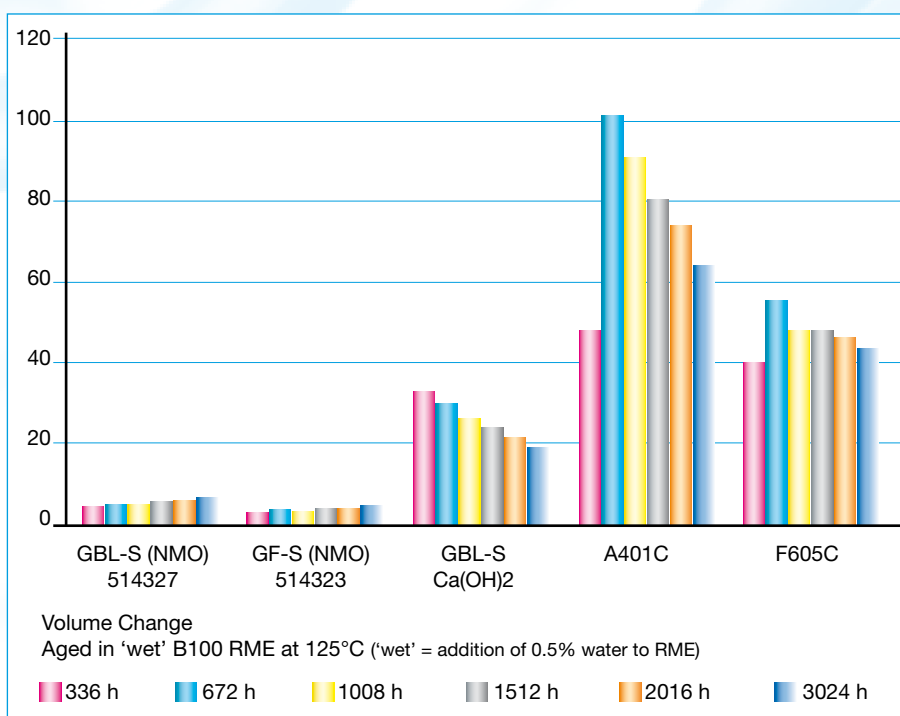
Chemical Composition	: Special fluorocarbon with 70% fluorine, peroxide cured
Physical form	: O-Rings
Colour	: Black
Odour	: None
Storage stability *	: Excellent

* : Following ISO 2230 conditions



3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 48 Method M	75 ± 5 IRHD
Tensile Strength at break	ISO 37	18,2 MPa
Elongation at break	ISO 37	310%
Specific Weight	ISO 2781	1,885
Compression Set	ISO 815	
25% compression - 22h/175°C	ISO 815	10%
70h/175°C	ISO 815	14%
Liquid Resistance RME +0,15%H ₂ O	ISO 1817-1999	
IRHD Change: 168h/150°C • 336h/150°C • 672h/150°C		-7% • -7% • -6%
Volume Change: 168h/150°C • 336h/150°C • 672h/150°C		+3,9% • +3,7% • +3,7%
Weight Change: 168h/150°C • 336h/150°C • 672h/150°C		+1,7% • +1,8% • +1,9%



4. Temperature Resistance

- -20° to +200°C
- TR10 (low temp. resistance): -10°C

5. Chemical Resistance

Concentrated acids	: very good
Acetone	: good
Hydroxides	: excellent
Benzene	: very good
Crude oil	: excellent
Toluene	: excellent
Fuel C	: excellent
Gasoline	: very good
Methylene chloride	: very good
MEK	: good
MTBE	: good
Water <100°C	: very good

6. Advantages

- Very good compression-set
- Specially resistant to bio-fuel
- Labeled with Viton® stickers