

# Parco 9166-75 Fluorocarbon Seals

# Need a Less Expensive Alternative to Perfluoroelastomers?

Regular fluorocarbon seals don't adequately resist harsh chemicals, but perfluoroelastomers are expensive. Now, Parco's 9166-75 fluorocarbon seals offer a less expensive alternative made from Dupont's polymer, Viton® Extreme<sup>™</sup> (ETP).

Seals used in oil field, automotive, and aerospace applications are regularly exposed to chemicals that can cause them to extrude from their gland. Parco's 9166-75 seals provide excellent resistance to acids, hydrocarbons, esters, keystones, and other caustic fluids. Parco's 9166-75 seals have these features:

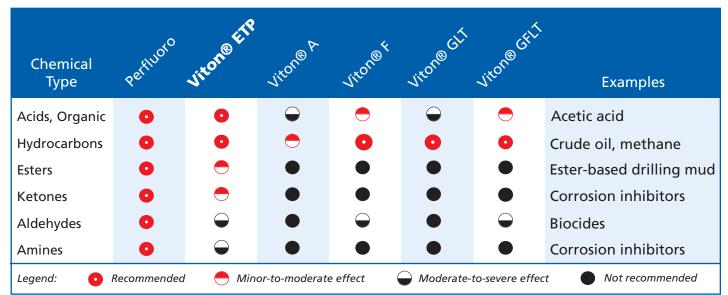
• Superior chemical resistance

Our 9166-75 seals swell significantly less in various fluids than seals made form DuPont polymers, Viton<sup>®</sup> A, F, GLT, and GFLT (see Figure 1).

• Exceptional value

Our 9166-75 seals offer reliable service similar to a perfluoroelastomer in aggressive chemicals, but at a fraction of the cost.

Fig. 1:



#### 9166-75 Viton® ETP Seals Offer Similar Chemical Resistance to Perfluoroelastomers

Viton® is a trade name of DuPont Performance Elastomers.

### **Key Features**

Parco's 9166-75 fluorocarbon seals are ideal for use in broad chemical resistance applications. Key features include the following:

#### • Superior chemical resistance:

Parco 9166-75 seals showed superior chemical resistrance to seals made from DuPont polymers, Viton® A, F, GLT, and GFLT.

Color:

Parco 9166-75 seals are blue.

Exceptional value:

Parco 9166-75 seals are available at a fraction of the cost of perfluoroelastomers.

 Wide range of service temperatures: Parco 9166-75 seals are suitable for applications ranging from -20 to +400°F.

Chemical Resistance	
USE WITH	DO NOT USE WITH
Carbon Tetrachloride	Acetone
Diester Synthetic Lubricants	Amines
Gasoline	Ethyl Acetate
Hot Air	
Toluene	

### **Typical Values for Compound 9166-75** 75-durometer Fluorocarbon-Viton<sup>®</sup> Extreme<sup>™</sup> (ETP)

Section of Spec.	Physical Property	Requirement <sup>1</sup>	Typical Value	ASTM <sup>2</sup> Test Method
Z1	<b>Original Properties</b> Hardness, Shore A Tensile strength, MPa (psi), min. Ultimate elongation, pct., min.	75 ± 5 10(1450) 175	71 14.3(2072) 300	D2240 D412 D412
Basic	Fluid Aging, IRM <sup>3</sup> 903 Oil 70 hours at 150°C (302°F) Volume change, pct., max.	10	3	D471
A1-10	Heat Aging 70 hours at 250°C (482°F) Hardness change, pts., Shore A, max. Tensile strength change, pct., max. Ultimate elongation change, pct., max.	10 -25 -25	0 2 17	D573
B37 B38	<b>Compression Set, Plied</b> <b>pct. of original deflection, max.</b> 22 hours at 175°C (347°F) 22 hours at 200°C (392°F)	50 50	29 30	D395 Method B
EO78	Fluid Aging, Service Liquid No. 101 70 hours at 200°C (392°F) Hardness change, pts., Shore A Tensile strength change, pct., max. Ultimate elongation change, pct., max. Volume Change, pct.	-15 to 5 -40 -20 0 to 15	-4 17 17 5	D471
Z2	Low Temperature Property TR-10, °C (°F)	Report	-7(19)	D1329

<sup>1</sup>Compound 9166-75 meets the requirements shown above for ASTM D2000 M2HK710 A1-10 B37 B38 EO78 Z1 Z2. <sup>2</sup>ASTM is the acronym for the American Society for Testing and Materials. <sup>3</sup>IRM is the acronym for Industry Reference Material. Source: Parco Test Report 7992.

This brochure is intended as a guideline and reference. Appropriate testing and validation by users having technical expertise is necessary for proper use of Parco products.

## Parco

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