



# NMO Compound 608714

## Biodiesel Fuel Compatibility

### Biodiesel Fuel Rubber Compatibility

The worldwide drive for cleaner burning fuels has led to the development of Ultra Low Sulfur Diesels (ULSD) and Biofuels. Many of these Biofuels are blended with Diesel to produce alternative fuels such as B5 (5% Biofuel), B20 (20% Biofuel) and B50 (50% Biofuel).

Traditional polymers used in combustion engines are not compatible with these new fuels. Biodiesel fuels which might include water and/or acid can be extremely deleterious to conventional Fluoroelastomers formulated with metal oxides.

Precision Associates' compound 608714 is a 70 durometer black NMO (no metal oxide) peroxide cured Viton® GFLT. It offers superior chemical resistance with improved low temperature performance.

Precision Associates Inc. has done exhaustive testing on many different polymer types. We are confident that our compound 608714 will meet or exceed your requirements for these new fuels.



UL Standard 87B covers Power-Operated Dispensing Devices for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends. The data below show how well 608714 performs against the standard's requirements.

<b>STATIC SEALS (5.2.2.1) 608714 Requirement</b>			<b>DYNAMIC SEALS (5.2.2.2) 608714 Requirement</b>		
<b>IMMERSION FB25a: UL 157</b>			<b>IMMERSION FB25a: UL 157</b>		
1000 Hours @ RT			1000 Hours @ RT		
Volume Change	+0.3%	-1 to +40	Tensile Strength Change	- 4.3%	-40 max
Weight Change	+1.1%	-10 max	Elongation Change	-16.5%	-40 max
Compression Set	7.9%	35% max	Volume Change,	+ 0.3%	-1 to 40
Visual Degradation	None	None	Weight Change,	+ 1.1%	-10 max
			Visual Degradation	None	None
<b>IMMERSION B100a: UL 157</b>			<b>IMMERSION B100a: UL 157</b>		
1000 Hours @ RT			1000 Hours @ RT		
Volume Change	+0.3%	-1 to +40	Tensile Strength Change	-17.6	-40 max
Weight Change	+1.2%	-10 max	Elongation Change,	-25.0	-40 max
Compression Set	7.9%	35% max	Volume Change,	+ 0.3	-1 to 40
Visual Degradation	None	None	Weight Change,	+ 0.4	+1.2 -10 max
			Visual Degradation	None	None

Please contact Precision Associates for more information and a complete Product Data sheet on our compound 608714.



3800 North Washington Ave.  
Minneapolis, MN 55412-2142

Toll Free: 1-800-394-6590

612-333-7464

Sales: 612-334-9190

FAX: 612-342-2417

***info@PrecisionAssoc.com***

## Ask us about our complete line of product literature:

- ***Standard O-Rings***
- ***Special Size O-Rings***
- ***U-Cups***
- ***V-Rings***
- ***Rod Wipers***
- ***X-Rings***
- ***8-Rings™***
- ***Multiseal® Low Friction Seals***
- ***Kurv-Bak™ Hard Rubber Backup Rings***
- ***Rubber Balls***
- ***Medical Seals***
- ***Custom Molded Rubber Components***
- ***Machined Engineered Plastic Components***

After 60+ years in the rubber business, we've learned to be flexible. We'll bend over backwards to design custom solutions that meet your needs *precisely*. PAI is the company you can trust for rubber seal solutions YOUR WAY!

- Over 1,000 different compounds
- More than 2,600 O-Ring Sizes
- On-Site Mold Shop
- Custom Molding
- 99% on-time delivery
- ISO 14644-1 Class 7 clean room

***www.PrecisionAssoc.com***