



General Features

- Good compression set resistance
- Excellent heat resistance
- Excellent general chemical resistance, including oxygenated (alcohol containing) fuels
- Moderate low temperature flexibility

Application

A highly fluorinated FKM elastomer with excellent general chemical resistance, including coolants, lubricating oils, and other moderately high pH environments.

514GJ provides good resistance to all petroleum and ester based oils and lubricants while providing good compression set resistance, and moderate low temperature flexibility.



Quad-Ring® Brand Seals



Quad® Brand O-Ring Seals



Quad® Ground Rubber Balls



Equi-Flex™ Rod Wiper/Scraper

Original Properties

Property	Unit	Required	Obtained	ASTM Test Method
Hardness	Shore A	70 ± 5	72	D 2240
Tensile	MPa		14.2	D 412
Elongation at break	%		270	D 412
100% Modulus	MPa		4	D 412
Tear Strength, Die C	kN/m		15.9	D 624
Specific Gravity			1.92	D 297

Air Age

Property	Unit	Obtained	ASTM Test Method
Change after 70h @ 250°C			
Δ Hardness	Shore A	0	D 573
Δ Tensile	%	-3.9	
Δ Elongation	%	1.5	

FKM Elastomer Compound 514GJ

Fluid Immersion

Property	Unit	Obtained	ASTM Test Method
Reference Fuel C			
Change after 70h @ 23°C			D 471
Δ Hardness	Shore A	-1	
Δ Tensile	%	-2.7	
Δ Elongation	%	-0.4	
Δ Volume	%	1.9	

Property	Unit	Obtained	ASTM Test Method
Reference Fuel C/ Ethanol, 70/30			
Change after 70h @ 23°C			D 471
Δ Hardness	Shore A	-3	
Δ Tensile	%	-15.3	
Δ Elongation	%	-5.2	
Δ Volume	%	2.7	

Property	Unit	Obtained	ASTM Test Method
Reference Fuel FAM B			
Change after 70h @ 23°C			D 471
Δ Hardness	Shore A	-3	
Δ Tensile	%	-16.6	
Δ Elongation	%	3	
Δ Volume	%	2.9	

Property	Unit	Obtained	ASTM Test Method
Diesel Fuel			
Change after 70h @ 23°C			D 471
Δ Hardness	Shore A	0	
Δ Tensile	%	-1.2	
Δ Elongation	%	-3.9	
Δ Volume	%	0.3	

Property	Unit	Obtained	ASTM Test Method
Service Liquid 101			
Change after 70h @ 200°C			D 471
Δ Hardness	Shore A	-4	
Δ Tensile	%	-5.3	
Δ Elongation	%	-2.2	
Δ Volume	%	4.4	

Compression Set Resistance

Property	Unit	Obtained	ASTM Test Method
			D 395, Method B
22h @ 23°C	%	8.7	
22h @ 175°C	%	20.5	
22h @ 200°C	%	31.9	

Low Temperature

Property	Obtained	ASTM Test Method
Non-brittleness, 3 min @ -25°C	Pass	D 2137