



General Features

- Superior compression set resistance
- Excellent heat resistance
- Excellent resistance to water, steam, and aqueous acid/base environments
- Very good general chemical resistance
- Resistance to oxygenated (alcohol containing) fuels
- Water, Food, and Beverage Certifications

Application

Developed for use in potable water, food and beverage applications but also provides overall excellent general chemical resistance, including resistance to all types of Clean-In-Place solutions, oils and all types of fuels, including those oxygenated with alcohols and ethers.

515CG exhibits excellent resistance to various aqueous and non-aqueous food products and has multiple global certifications for health, hygiene, and safety in food and water applications.



Certifications



NSF/ANSI Standard 51
NSF/ANSI Standard 61



FDA 21 CFR 177.2600



EC1935/2004



USP Class VI

Original Properties

Property	Unit	Required	Obtained	ASTM Test Method
Hardness	Shore A	70 ± 5	69	D 2240
Tensile	MPa	10 min	20.2	D 412
Elongation at break	%	175 min	221	D 412
100% Modulus	MPa		5.3	D 412
Tear Strength, Die C	kN/m		27.1	D 624
Specific Gravity			1.93	D 297

FKM Elastomer Compound 515CG

Air Age

Property	Unit	Obtained	ASTM Test Method
Change after 70h @ 250°C			D 573
Δ Hardness	Shore A	2	
Δ Tensile	%	11.7	
Δ Elongation	%	0.4	

Fluid Immersion

Property	Unit	Obtained	ASTM Test Method
Water			
Change after 70h @ 100°C			D 471
Δ Hardness	Shore A	-2	
Δ Volume	%	2.8	

Fuels and Oils

Property	Unit	Obtained	ASTM Test Method
Service Liquid 101			
Change after 70h @ 200°C			D 471
Δ Hardness	Shore A	5	
Δ Tensile	%	0.8	
Δ Elongation	%	-3.3	
Δ Volume	%	16.2	

Property	Unit	Obtained	ASTM Test Method
Hatco 7700			
Change after 70h @ 200°C			D 471
Δ Hardness	Shore A	-6	
Δ Tensile	%	-3.8	
Δ Elongation	%	-2.9	
Δ Volume	%	13.9	

Property	Unit	Obtained	ASTM Test Method
Reference Fuel C			
Change after 70h @ 23°C			D 471
Δ Hardness	Shore A	-1	
Δ Volume	%	2.2	

Property	Unit	Obtained	ASTM Test Method
Reference Fuel C/ Ethanol, 70/30			
Change after 70h @ 23°C			D 471
Δ Hardness	Shore A	-4	
Δ Volume	%	3.7	

Property	Unit	Obtained	ASTM Test Method
FAM B - Reference Fuel			
Change after 70h @ 23°C			D 471
Δ Hardness	Shore A	-3	
Δ Volume	%	5.0	

Compression Set Resistance

Property	Unit	Obtained	ASTM Test Method
			D 395
22h @ 23°C	%	5.6	
22h @ 175°C	%	6.8	
22h @ 200°C	%	8.1	

Low Temperature

Property	Obtained	ASTM Test Method
Glass Transition Temperature, °C	-5	D 7426



To get a quote or order, please visit our website or contact one of our Customer Service Representatives
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