

FKM Elastomer Compound 515CG

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.

ORIGINAL PROPERTIES

Property	Unit	Nominal	Typical	ASTM Test Method
Hardness	Shore A	70 ± 5	69	D 2240
Tensile Strength	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

Air Age, 70h @ 250°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	2
Δ Tensile Strength	%	11.7
Δ Elongation	%	0.4

Certifications



NSF/ANSI Standard 51
NSF/ANSI Standard 61



Sanitary 3-A



EC1935/2004



FDA 21 CFR 177.2600



USP Class VI

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Water, 70h @ 100°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-2
Δ Volume	%	2.8

Service Liquid 101, 70h @ 200°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	5
Δ Tensile Strength	%	0.8
Δ Elongation	%	-3.3
Δ Volume	%	16.2

Hatco 7700, 70h @ 200°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-6
Δ Tensile Strength	%	-3.8
Δ Elongation	%	-2.9
Δ Volume	%	13.9

Reference Fuel C, 70h
@ 23°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-1
Δ Volume	%	2.2

Reference Fuel C/Ethanol, 70/30, 70h
@ 23°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-4
Δ Volume	%	3.7

Reference Fuel-FAM B, 70h
@ 34°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-3
Δ Volume	%	5.0

Compression Set Resistance,
per ASTM D 395

Property	Unit	Typical
22h @ 23°C	%	5.6
22h @ 175°C	%	6.8
22h @ 200°C	%	8.1

Low Temperature, per ASTM D 7426

Property	Typical
Glass Transition Temperature, °C	-5

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