

FKM Elastomer Compound 515CH

General Features

- Superior compression set resistance
- Excellent heat resistance
- Excellent resistance to water, steam, lubricating oil, and high pH environments with good general chemical resistance
- Good low-temperature flexibility compared to other base resistant elastomers

Application

A base resistant FKM elastomer with excellent resistance to extended life engine coolants, lubricating oils, and other high pH environments.

Compared with other base resistant elastomers, compound 515CH provides superior oil and transmission fluid resistance, compression set resistance, and improved low-temperature flexibility.

ORIGINAL PROPERTIES

Property	Unit	Nominal	Typical	ASTM Test Method
Hardness	Shore A	70 ± 5	70	D 2240
Tensile Strength	MPa	14 min	17.4	D 412
Elongation at break	%	175 min	502	D 412
100% Modulus	MPa		2.3	D 412
Tear Strength, Die C	kN/m		21.3	D 624
Specific Gravity			1.74	D 297

Air Age, 70h @ 250°C per ASTM D 573

Property	Unit	Typical
Δ Hardness	Shore A	2
Δ Tensile Strength	%	-29.9
Δ Elongation	%	-5.9

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

Property	Unit	Typical
Δ Hardness	Shore A	-5
Δ Tensile Strength	%	-2
Δ Elongation	%	1.4
Δ Volume	%	3.6

Caterpillar ELC Coolant, 168h
@ 150°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-1
Δ Tensile Strength	%	-3.5
Δ Elongation	%	-4.5
Δ Volume	%	2.5

Dexron VI ATF, 168h
@ 150°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	-5
Δ Tensile Strength	%	-4.4
Δ Elongation	%	4.5
Δ Volume	%	2.7

Ford Motorcraft Gold Coolant, 70h
@ 100°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	0
Δ Tensile Strength	%	-3.1
Δ Elongation	%	3.7
Δ Volume	%	1

DexCool Coolant, 168h
@ 150°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	0
Δ Tensile Strength	%	-11.3
Δ Elongation	%	-2
Δ Volume	%	3

Dexron CVTF, GM 9986443, 168h
@ 150°C per ASTM D 471

Property	Unit	Typical
Δ Hardness	Shore A	8
Δ Tensile Strength	%	-8.1
Δ Elongation	%	3.5
Δ Volume	%	2.1

Compression Set Resistance,
per ASTM D 395, Method B

Property	Unit	Typical
22h @ 23°C	%	10.3
22h @ 175°C	%	14.5
22h @ 200°C	%	16.9

Low Temperature, per ASTM D 7426

Property	Typical
Glass Transition Temperature, °C	-11.3

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