

Coolant Resistant FKM

Fluorocarbon Polymer Family



Resistance to Both Oil and Coolant:

Parker has developed new coolant resistant (CR) FKM materials that can withstand the corrosive effects of high temperatures and constant exposure to both coolant and oil.

Traditionally, in applications where both oil and coolant are present, with cylinder liners being an example, a typical sealing system consists of an EPDM seal for coolant resistance and a FKM seal for oil resistance. This arrangement increases the chance of seal failure and leakage because the FKM seal will degrade upon contact with coolant and the EPDM seal with oil.

Parker's new coolant resistant FKM materials can mitigate the risk of seal degradation that is inherent in the traditional sealing system while reducing the likelihood of part mixing during installation.



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Product Features:

- Outstanding resistance to both oil and coolant
- Low temperature capability range from -15°C to -40°C
- Coolant resistant capability up to 150°C [~300°F] continuous
- Excellent resistance to compression set
- Engineered seals with optimal geometry and custom design
- Wide range of manufacturing methods for CR FKM seals
- Application Engineering support and design assistance
- Chemical and functional testing available



ENGINEERING YOUR SUCCESS.

Outstanding Coolant Resistance

Parker's new generation CR FKM materials possess excellent resistance to coolant up to 150°C continuous operating temperature. Please consult with our Application Engineers to select the best compound for your specific application.

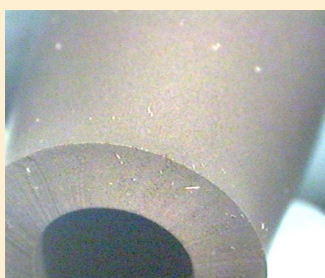


Other CR FKM Seal
Seal degradation with visible cracks after <500 hours of engine test.

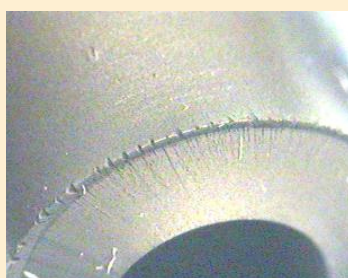


Parker's New Generation CR FKM Seal
No cracks and only 9% compression set after 2000 hours of engine thermal cycle test (TCT).

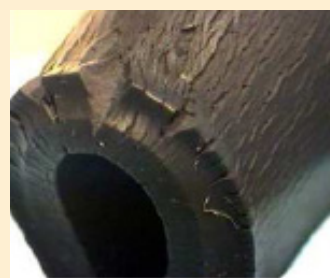
Aged in Heavy Duty OAT Coolant for 1000 hours @ 150°C [~300°F]



New Generation CR FKM Seal



Base Resistant FKM Seal



Other CR FKM Seal

Better Compression Set Resistance

Parker's new CR FKM has similar coolant resistance to base resistant FKM, without giving up good compression set resistance properties. Base resistant FKM materials typically have high compression set limiting their sealing ability; they also have poor low temperature flexibility.

