



LOW TEMPERATURE FKM

Low temperature FKM is used by O-ring Division and LC IMC in response to the need for a material with the fuel resistance and high temperature characteristics of FKM, but also with low temperature capabilities (a traditional problem with FKM).

Low temperature FKM was developed for use with:

- Alternative fuel sources such as compressed natural gas
- Tier Auto applications in emissions treatment systems (AdBlue)
- Aerospace applications because of its resistance to fuels and high altitude (low) temperatures

Low temperature FKM provides **-40 °C materials** developed via proprietary cure/filler systems for long term stability in:

- Tests with fuel FAM A and FAM B and also with CNG
- MIL-PRF-23699 HTS, turbine oils, oxygenated petroleum based fuels, T-type hydrocarbons, longer chain alcohols, bio-fuels (biodiesel and "Bio-Jet", based on vegetable oil methyl esters)

Five FKM materials are available with low temperature and fuel resistant capabilities:

- LC IMC:
60 FKM 285896, 70 FKM 286110, 80 FKM 285903
- LC O-ring:
V127 for aerospace and 85 FKM 235447 (development) for automotive applications

VALUES FOR THE CUSTOMER

- Excellent compression set values
- Can be color coded by low temperature performance
- Excellent high temperature and expanded low temperature capabilities
- Superior resistance to fuels



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