

ORD Problem Solved!

Parker Compound KA183-85

Best Low Temperature Performance

Parker O-Ring Division is now offering a new low temperature HNBR material designed for the Energy, Oil and Gas Market. The new KA183-85, has excellent cold temperature attributes and is formulated to withstand temperatures as low as -40°F (-40°C).

In applications involving subsea oil exploration and production of crude oil, temperatures can reach close to freezing point. Most materials are slow to rebound from these harsh temperatures, limiting their sealing capacity. Parker's KA183-85 excels in these temperatures, remaining flexible and allowing the sealing properties to

remain robust.

Another benefit of this 85 durometer material is its excellent tensile, modulus, and elongation properties. The HNBR material continues to be compatible with hydrogen sulfide, corrosion inhibitors, steam, methanol and oil.

KA183-85 has passed extensive testing in high pressure CO₂ and decompression per NACE Standard TM0297-97 with outstanding results.

For more information on this or any of Parker's 200+ rubber compounds, call our applications engineers at 859-269-2351 or e-mail to ordmail@parker.com.

Advantages

- Low temperature capability as low as -40°F (-40°C)
- 300°F (149°C) performance rating
- Excellent abrasion resistance
- Excellent wear resistance
- Good extrusion resistance
- Extensive testing profile for EOG-specific requirements which include testing in :
 - *Methanol
 - *Oil
 - *Marsten Bentley oceanic fluids
 - *Kerosene
 - *Baroid Petrofree drilling fluid

View previous issues of O-Ring Division newsletters, *New Solutions* and *Problem Solved!* at the Distributor Forum or Seal Group Forum.

Application Success Story

Application:

Oil Pump

Problem:

The customer had low temperature leakage at -40 °C .

Low temperature and elongation concerns eliminated previously tested/ used materials.

Parker Solution:

Parker recommended KA183-85, developed specifically for the EOG market, with excellent elongation, tensile, and modulus properties. Extensive EOG focused testing had already been completed on the new material and was immediately provided to the customer.

Outcome:

The customer used KA183-85 prototypes in their application and found it to be exactly what they were looking for. The existing EOG test profile saved them valuable time and money. The customer was able to approve the material in their application quickly, eliminating unnecessary downtime and providing the seal properties they were needing.

