

ORD Problem Solved!

Parker HNBR, KB163-90

Outstanding combination of high temperature stability, low compression set, extrusion resistance and hydraulic fluid compatibility!

Aggressive environments and high temperature hydraulics require a material that can withstand high pressures, more exotic hydraulic fluids and higher temperatures than needed in the past.

In applications such as mobile hydraulics, temperatures increase as equipment works with less and less fluid. High demand applications can exceed 275°F which creates a thermal demand beyond the limits of a nitrile seal.

Application pressures have also in-

creased dramatically. Applications today can have pressure spikes of 3,000 psi, requiring a material to cover existing clearance gaps without extruding. In addition, environmentally friendly fluids such as those found in mobile hydraulics, can cause degradation to seal materials over time.

Parker's KB163-90 can deliver in all of these situations. This HNBR offers continuous thermal stability up to 300°F (150°C), excellent pressure resiliency and resistance to acidic hydraulic fluid and



water.

To find out if this material is right for your application, call our Applications Engineers or Business Development Engineers at 859-269-2351.



Application Success Story

Application:

Hydraulic pump housing a static O-ring seal.

Problem:

Customer has been using 90 durometer, peroxide-cured nitrile O-rings in their application for years. The seals are exposed to 300°F (150°C) temperatures. The current service life of the nitrile seals are not acceptable to the customer.

Parker Solution:

Parker recommends KB163-90, an HNBR that offers outstanding high temperature stability. In addition to this, it also has outstanding hydraulic fluid compatibility, extrusion resistance and low compression set.

Outcome:

Parker provided the OEM with samples of the HNBR. After extensive testing by the customer, KB163-90 was approved to their material specification as their hydraulic system rubber seals.

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