

# KB163-90 Product Data Sheet

## Oil & Gas applications

In conjunction with Parker Seals, this range of high performance materials for Oil & Gas meets the most challenging and demanding applications for aggressive chemicals, gas and high temperatures. These materials offer excellent chemical and thermal resistance and thermal stability under these extreme application conditions.

We provide our customers with the highest quality products and technical support on seal design, material recommendation, installation techniques and test analysis, specifically for the oil & gas market.

KB163-90 HNBR is tested and approved to ISO 23936-2 RGD and H<sub>2</sub>S 10%, NORSOK M-710 RGD & H<sub>2</sub>S and is NACE TM0187 H<sub>2</sub>S approved

**Basic Polymer: HNBR**  
**Hardness: 90 +/- 5 Shore A**  
**Temperature range: -32°C to +150°C**  
**Colour: Black**

### Recommended for:

- High temperature hydraulics
- Petroleum based hydraulic oil, motor oil, transmission fluid, grease
- R134a refrigerant
- Water, glycol & steam
- HFA, HFB & HFC fluids
- Ozone, ageing and weather resistance
- Rapid Gas Decompression

Original Physical Properties	Results
Hardness (Shore A)	88
Tensile Strength (MPa)	22.19
Elongation (% min)	107
Modulus @ 50% Elongation (MPa)	10.70
Compression Set (22hrs @150°C) %	22

### Products

- O-rings
- Back-up rings
- Moulded shapes
- S-Seals
- PolyPaks®

These results represent typical material properties. They are achieved under laboratory conditions and do not necessarily correspond to results measured on finished goods. It does not absolve the customer of the responsibility to make tests for their intended process or purpose. Ceetak Ltd makes no warranties and assumes no liability in connection with any use of this information.