

# PRODUCT INFORMATION

H1 Mechanical Seal Barrier Fluid



# FRAGOL

## FRAGOL BARRIER FLUID

FRAGOL BARRIER FLUIDS are low viscosity products, based on synthetic base stocks. They provide the excellent chemical stability and compatibility needed in applications as barrier and buffer fluids for mechanical seals in rotating equipment.

FRAGOL BARRIER FLUIDS meet the requirements of FDA 21 CFR 178.3570 and are H1-registered for processes where incidental food contact can occur. All FRAGOL H1-registered products are manufactured according to ISO 21469:2006 which supports producers' HACCP and GMP programs. FRAGOL H1-lubricants do not contain ingredients of animal origin or genetically modified products and are KOSHER and HALAL certified.

### APPLICATIONS

- Barrier/buffer fluids for dual mechanical seals operating at high and low temperatures
- Pressure transmitting equipment
- Precision- and measurement instruments

### BENEFITS

- Excellent heat transfer properties for seal cooling
- Minimizing abrasive wear to seal faces
- Compatibility with a wide range of seals
- Compatibility with most process fluids
- High purity due to absence of components that can be harmful or reactive to process fluids
- Low evaporation loss

### TYPICAL CHARACTERISTICS

| FRAGOL BARRIER FLUID             | BARRIER FLUID 5 | BARRIER FLUID 15 | BARRIER FLUID 32 | Unit               | Method      |
|----------------------------------|-----------------|------------------|------------------|--------------------|-------------|
| <b>Appearance</b>                | transparent     | transparent      | transparent      | -                  | visual      |
| <b>Viscosity @ 40 °C</b>         | 5.1             | 19.0             | 29.9             | mm <sup>2</sup> /s | ASTM D-445  |
| <b>Viscosity @ 100 °C</b>        | 1.7             | 4.1              | 5.9              | mm <sup>2</sup> /s | ASTM D-445  |
| <b>VI</b>                        | 123             | 126              | 148              | -                  | ASTM D-2270 |
| <b>Density @ 15.6 °C</b>         | 0.80            | 0.82             | 0.83             | kg/l               | ASTM D-1298 |
| <b>Flash point (COC)</b>         | 157             | 220              | 246              | °C                 | ASTM D-92   |
| <b>Pour point</b>                | -73             | -66              | -62              | °C                 | ASTM D-97   |
| <b>Initial boiling point</b>     | 223             | 414              | 419              | °C                 | ASTM D-2887 |
| <b>Fire point</b>                | 183             | 256              | 276              | °C                 | ASTM D-92   |
| <b>Auto ignition temperature</b> | 324             | 343              | 354              | °C                 | ASTM E659   |

### SPECIFICATIONS

FRAGOL BARRIER FLUID 32 has received approval from AERZEN in type GM150 SX blowers.

### COMPATIBILITY

FRAGOL BARRIER FLUIDS are based on synthetic hydrocarbons and have characteristics very similar to mineral oils with regard to their compatibility with seals, gaskets, hoses and paints. There are no special requirements when replacing mineral oil or other PAO-based fluids, but mixing with glycol or silicone oils must be avoided. Flushing is recommended to remove remaining residues.

2021-08. All the above information is represented to the best of our knowledge. However, we do not take any legal responsibility for the correctness of this information or viability for use in certain applications. Technical data represent approximate values and are subject to the usual production fluctuations.