



# **DuraClear™** *high performance synthetic lubricants*

## ***DuraClear advantages over conventional oils or greases***

- Reduced friction and wear
- Oxidation resistance and high temperature stability
- Low temperature fluidity and lubrication
- Chemically inert and compatible with most process fluids
- Low volatility and hydrolytic stability
- Less sludge and varnish build-up
- Longer life means fewer drain intervals, less lubricant disposal
- Reduced lubricant and energy consumption
- Non-toxic, non-hazardous, environmentally safe
- Food grades readily available

### ***DuraClear mechanical seal barrier fluids***

Pure synthetics and blends available for all double and tandem mechanical seal applications. These non-toxic, food grade barrier fluids are compatible with virtually all process fluids and will greatly reduce the energy consumption and increase the mean time between planned maintenance of your pump or mixer. Viscosities from 5 cSt (ISO) to 32 cSt are available for all temperature ranges.

#### **Flowserve Barrier Fluid Product Codes**

DS-4609-7-F Synthetic Blend

DS-4614-5-F Pure Synthetic

DS-4614 -32-F High Temperature Pure Synthetic

Crystal 7 - High Performance in Extreme Environments. Chemically inert and non-reactive. Safely used with reactive chemicals such as oxygen, hydrofluoric acid, chlorine, fluorine and bromine.

### ***DuraClear compressor oil***

DuraClear process gas compressor oil is a custom blended synthetic hydrocarbon fluid giving improved lubrication at high and low temperatures, reduced volatility, chemical inertness, hydrolytic stability, and compatibility with mineral oils and equipment designed for use with mineral oils. This fluid minimizes contamination of the gas stream and minimizes vapor phase carryover.

#### **Flowserve Compressor Oil Product Codes**

DS-4600-68 Pure Synthetic Process Gas

DMS-4 Synthetic Blend Rotary Screw

### ***DuraClear gear oils***

DuraClear gear oils have proved in extensive field evaluations to give extended service life, friction and horsepower reduction, wear reduction, extreme temperature application, and overall economic benefits. These super refined hydrocarbons combine high viscosity indices with high film strength and excellent mechanical shear resistance even in heavily loaded gear applications. Additives provide superior oxidative stability, corrosion protection, and load carrying capability. Food grades are available which meet FDA and USDA requirements.

#### **Flowserve Gear Oil Product Codes**

DS-4617-150-F, 220-F, 320-F, and 460-F Pure Synthetic

DS-9037-150, 220, and 320 Semi-Synthetic

### ***DuraClear bearing frame oils***

Bearing frame oils blended to provide better protection, longer changeout intervals, and cleaner, cooler operation of the power end of your rotating equipment. Viscosities of 32 cSt and 68 cSt are available to cover the range of bearing types and operating temperatures encountered.

#### **Flowserve Bearing Frame Oil Product Codes**

DS-Para 4-32 Synthetic Blend

DS-Para 4-68 Synthetic Blend

### ***DuraClear hydraulic oils***

A wide range of pure and semi-synthetic hydraulic oils are available for hydraulic systems using vane, piston, or gear type pumps. They are custom blended synthetic hydrocarbon oils giving improved lubrication at high and low temperatures, reduced volatility, and compatibility with mineral oils and equipment designed for use with mineral oils. They are formulated with additives for rust and oxidation inhibition and antiwear. These products are premium antiwear hydraulic oils developed for use in all high output and conventional hydraulic systems. Their high quality base fluids and superior additive systems meet or exceed the performance level of other premium A W hydraulic oils.

DuraClear hydraulic oils are available which meet federal requirements for incidental contact with food and are authorized by the USDA for use in federally inspected meat and poultry plants.

#### **Flowserve Hydraulic Oil Product Codes**

DS-4608-32-F, 46-F, and 68-F Pure Synthetic

DS-9000-32, 46, and 68 Semi-Synthetic

### ***DuraClear turbine oils***

DuraClear gas turbine oils are custom formulated lubricants designed for long life under the severe, demanding conditions normally encountered in gas turbines and centrifugal compressors. These products combine the advantages of synthetic and restructured hydrocarbon oil which results in performance beyond conventional mineral and other synthetic oils. Among these are oxidative, thermal, hydrolytic, and viscosity stability, low sludge tendency, rust and corrosion inhibition, long life and, therefore, low equipment maintenance costs.

#### **Flowserve Turbine Oil Product Codes**

DS-Turbo-4-32, 46, and 68 Synthetic Blend

FSD123eng REV 01-16 Printed in USA

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### ***DuraClear air tool lubricant***

DuraClear air tool lubricants are designed to provide longer life, and superior wear and rust protection for air tools. These formulations give improved lubrication at high and low temperatures, reduced volatility, and compatibility with mineral oils and equipment designed for use with mineral oils.

#### **Flowserve Air Tool Lubricant Product Codes**

DS-4617-15-F Pure Synthetic

DS-9017-15 Semi-Synthetic

### ***DuraClear general light lubricant***

DuraClear general light lubricant is a high quality, general purpose synthetic oil ideal for use when long time intervals exist between oil changeouts. This oil gives improved lubrication at high and low temperatures, reduced volatility, and compatibility with mineral oils and equipment designed for use with mineral oils. It is formulated with additives for rust and oxidation inhibition and antiwear. This lubricant meets federal requirements for incidental contact with food and is authorized by the USDA for use in federally inspected meat and poultry plants.

#### **Flowserve General Light Lubricant Product Code**

DS-4608-15-F Pure Synthetic

### ***DuraClear synthetic grease***

DuraClear grease is based on a special type of calcium complex thickener, which is very effective in the presence of water. It is capable of absorbing moderate levels of water without softening or changing consistency and still provides outstanding rust protection. These unusual properties are enhanced by EP multipurpose high temperature capability. The white color makes it ideal where cleanliness and non-staining properties are desired.

#### **Flowserve Grease Product Code**

DS-460-F Food Grade Pure Synthetic Grease

DS-920 OG Semi-Synthetic

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