

# PRODUCT DATA

## HYDRO-DRIVE® HP-46

**Hydro-Drive HP-46** is designed for use in all types of hydraulic equipment being used in industry today where no fire hazard exists. **Hydro-Drive HP-46** is field proven to stand up to the severe physical demands placed on today's sophisticated hydraulic systems and provide excellent lubrication performance.

**Hydro-Drive HP-46** is produced with high quality mineral oils and fortified with the latest additive systems to resist degradation by both heat and moisture. **Hydro-Drive HP-46** is formulated with additive components to enhance the corrosion protection, oxidation resistance, demulsibility and provide maximum anti-wear properties.

### **TYPICAL PHYSICAL PROPERTIES**

|   |                           |           |
|---|---------------------------|-----------|
| Appearance                                  | Clear Amber, Mobile Fluid |           |
| ISO Viscosity Grade                         | 46                        |           |
| Viscosity @ 210°F                           | 48 SUS                    | 6.74 cSt  |
| @ 100°F                                     | 233 SUS                   | 50.20 cSt |
| @ 100°C                                     | 47.5 SUS                  | 6.60 cSt  |
| @ 40°C                                      | 210 SUS                   | 45.00 cSt |
| Viscosity Index                             | 100                       |           |
| Specific Gravity @ 60/60°F<br>(ASTM D-1298) | 0.872                     |           |
| Pour Point (ASTM D-97)                      | -20°F (-29°C)             |           |
| Flash Point (ASTM D-92)                     | 396°F (202°C)             |           |
| Fire Point (ASTM D-92)                      | 495°F (256°C)             |           |
| Pounds per Gallon                           | 7.26                      |           |
| TAN - mg KOH/gm (ASTM D-974)                | 0.35                      |           |



Houghton International Inc.

Madison and Van Buren Ave., P. O. Box 930, Valley Forge, PA 19482-0930  
**(610) 666-4000 Telefax (610) 666-1376**

**CORROSION PROTECTION**

|   |                                  |
|---|----------------------------------|
| Copper Strip Tarnish Test (ASTM D-130)                            | 1b                               |
| ASTM D-665-A Rust Test 72 hours                                   | Pass, specimen<br>clean & bright |
| Pump Wear (ASTM D-2882)<br>Weight Loss, Ring & Vanes Combined, mg | Less than 15                     |

**SHIPPING INFORMATION**

**Hydro-Drive HP-46** is shipped in 55 (U.S.) gallon (208 liter) drums and in bulk.

**STORAGE/HANDLING/DISPOSABILITY**

No health or safety hazards exist when **Hydro-Drive HP-46** is stored, used and disposed of in accordance with instructions given on the Material Safety Data Sheet for this product.

**WARRANTY**

The information given here is considered to be correct and is offered for your consideration, investigation and verification. No warranties are expressed or implied since the use of our products is beyond our control. Statements concerning the use of Houghton products are not to be construed as recommending the infringement of any patent.

**EXPORT STATEMENT**

This commodity and its technology are subject to the export control laws and regulations of the United States Government. Buyer agrees that it shall not make any disposition, by way of export, diversion, transshipment, re-export or otherwise, except as expressly permitted under United States law.