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# Product Data Sheet



NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability. Product typical properties in this publication are current as of June 21, 2007.

## SYNTHETIC VACUUM PUMPS

### SHV SERIES

The *Summit SHV Series* is formulated from vacuum distilled ultra-pure synthetic hydrocarbon base stock to provide an extremely low vapor pressure vacuum pump lubricant. These non-foaming fluids have excellent water separation and provide protection against wear, rust and corrosion. The SHV Series is an extended life lubricant designed to function in applications subject to severe temperature and environmental conditions.

### Physical Properties

| PRODUCTS  | SHV-15                | SHV-22                | SHV-32               | SHV-68                | SHV-100               |
|---|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|
| ISO Grade                                       | 15                    | 22                    | 32                   | 68                    | 100                   |
| Viscosity                                       |                       |                       |                      |                       |                       |
| @ 40°C, cSt                                     | 15.2                  | 21.2                  | 29.9                 | 63.7                  | 93.0                  |
| @ 100°C, cSt                                    | 3.54                  | 4.51                  | 5.70                 | 9.60                  | 12.5                  |
| @ 100°F, SUS                                    | 83.2                  | 110                   | 154                  | 327                   | 482                   |
| @ 210°F, SUS                                    | 38.2                  | 41.4                  | 45.3                 | 58.7                  | 69.8                  |
| Viscosity Index                                 | 113                   | 129                   | 134                  | 132                   | 130                   |
| Pour Point, °F                                  | -70                   | -80                   | -80                  | -55                   | -44                   |
| (°C)  | (-57)                 | (-62)                 | (-62)                | (-48)                 | (-42)                 |
| Flash Point, °F                                 | 415                   | 430                   | 450                  | 500                   | 510                   |
| (°C)  | (213)                 | (221)                 | (232)                | (260)                 | (266)                 |
| Autoignition Point °F                           | 710                   | 720                   | 730                  | 745                   | 760                   |
| (°C)  | (377)                 | (382)                 | (382)                | (396)                 | (404)                 |
| Copper Strip Corrosion                          | 1A                    | 1A                    | 1A                   | 1A                    | 1A                    |
| Emulsion Tendency                               | 40/40/0<br>(10 mins.) | 40/40/0<br>(10 mins.) | 40/40/0<br>10 mins.) | 40/40/0<br>(10 mins.) | 40/39/0<br>(15 mins.) |
| Vapor Pressure, mm Hg.<br>(Modified ARS 184-R1) |                       |                       |                      |                       |                       |
| 100°F   | <0.00047              | <0.00040              | <0.00030             | <0.00010              | <0.00004              |
| 200°F   | <0.00101              | <0.00080              | <0.00062             | <0.00050              | <0.00018              |
| 300°F   | <0.00190              | <0.00170              | <0.00160             | <0.00130              | <0.00085              |

The Summit SHV Series are compatible with commonly used seal and gasket materials in vacuum pump service.