

# EQUIVIS SMG



Hydraulic



Premium all-season antiwear hydraulic fluids

## APPLICATIONS

- EQUIVIS SMG hydraulic fluids are specially designed for applications in environmentally sensitive locations such as near waterways.
- EQUIVIS SMG can be utilized year long in mobile equipments and high pressure pumps that are exposed to extreme variations in temperature.
- EQUIVIS SMG lubricants are formulated with severely hydrotreated mineral oils and the latest antiwear additive technology that minimizes wear and friction that resist viscosity breakdown and oxidation.

## PERFORMANCES

- ISO 6743/4: HV
- DIN 51524, part 3 : HVLP
- DENISON: HF-0
- VICKERS 35VQ25

## CUSTOMER BENEFITS

- EQUIVIS SMG fluids do not contain metallic components, thus, reducing environmental impact.
- Low odor non-toxic fluid.
- EQUIVIS SMG can be recycled and/or regenerated.
- Easy equipment start-up even at low temperature.
- Superior corrosion, rust and wear protection.
- Superior shearing resistance.
- Excellent air and water separation from the fluid.

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**TOTAL**

## CHARACTERISTICS

| PROPERTIES                                   | METHODS                    | UNITS              | EQUIVIS      |              |              |
|--|----------------------------|--------------------|--------------|--------------|--------------|
|  |                            |                    | SMG 22       | SMG 32       | SMG 46       |
| Product code                                 | -                          | -                  | T400029      | T400030      | T400031      |
| Viscosity at 40°C                            | ASTM D445                  | cSt                | 23.5         | 34.0         | 44.3         |
| Viscosity at 100°C                           | ASTM D445                  | cSt                | 5.4          | 7.1          | 9.5          |
| Viscosity Index, minimum                     | ASTM D2270                 | -                  | 170          | 170          | 190          |
| Flash Point                                  | ASTM D92                   | °C                 | 200          | 225          | 240          |
| Pour Point                                   | ASTM D97                   | °C                 | < -55        | < -50        | < -50        |
| Density at 15°C                              | ASTM D1298                 | Kg/dm <sup>3</sup> | 0.865        | 0.865        | 0.868        |
| Color, maximum                               | ASTM D1500                 | -                  | L1.5         | L1.5         | L1.5         |
| Total acid number (TAN)                      | ASTM D664                  | KOH/g              | 0.35         | 0.35         | 0.35         |
| Oxidation stability                          | ASTM D943                  | hours              | 8000+        | 8000+        | 8000+        |
| Rust test, synthetic sea water               | ASTM D665B                 | -                  | Pass         | Pass         | Pass         |
| Foaming Sequence I, II and III               | ASTM D892                  | mL                 | 10/0         | 10/0         | 10/0         |
| Antiwear Protection                          | ASTM D4172B                | -                  | 0.36         | 0.35         | 0.32         |
| FZG  | DIN 51354                  | -                  | 12+          | 12+          | 12+          |
| Minimum Starting Temperature <sup>1</sup>    | ---                        | °C                 | -42          | -38          | -35          |
| Operating temperature <sup>2</sup>           | ---                        | °C                 | -30 to 60    | -22 to 72    | -18 to 84    |
| Biodegradability <sup>3</sup>                | CEC-L-33-T-93<br>OCDE 301B | %                  | > 50<br>> 40 | > 50<br>> 40 | > 30<br>> 30 |
| Aquatic Toxicity                             |                            |                    |              |              |              |
| EC <sub>50</sub> Daphnia (Daphnia magna)     | OCDE 202                   | ppm                | 480          | 480          | 480          |
| LC <sub>50</sub> Trout (Oncorhynchus Mykiss) | EPS 1/RM9/(07-90)          | ppm                | 20 000+      | 20 000+      | 20 000+      |
| LC <sub>50</sub> Inhibition                  | OCDE                       | ppm                | 10 000+      | 10 000+      | 10 000+      |

The typical characteristics mentioned represent mean values.

<sup>1</sup> Start-up is defined as the temperature at which the oil viscosity reaches 8500 cP.

The system must be in good conditions and not loaded.

<sup>2</sup> The upper & lower temperature limits are the temperatures at which the oil viscosity reaches 13 cSt and 750 cP, respectively. These values are based on manufacturer recommendations. Values may vary from manufacturers. To select the proper lubricant & viscosity grade, please verify manufacturer specifications

<sup>3</sup> Even if this fluid is inherently biodegradable, if a spill occur, Quebec law consider this mineral oil based lubricant is as an hazardous material "Règlement Québécois sur les matières dangereuses", (article 4 of Chapter I).