

## Q8 Galilei 680

Synthetic industrial gear oil recognized by Siemens Flender

### Description

Q8 Galilei 680 is a superior synthetic industrial gear oil that guarantees the highest level of gearbox protection as recognized by Siemens Flender. Q8 Galilei 680 is a high performing fluid that equals the Poly-Alpha Olefin products, without the actual use of PAO. Its characteristics improve energy efficiency in comparison with mineral and PAO-based oil. The lubricant is inherently biodegradable (49% in 28 days).

### Applications

Q8 Galilei 680 is perfect for use in heavily industrial gearboxes operating in rough conditions such as wind turbines, paper and steel mills, cement and mining, plastic extrusion and injection, aerators and agitators. Q8 Galilei 680 provides a high gear protection level as urged by major OEMs such as Siemens Flender, Hansen Sumitomo, Moventas and Winergy.

### Benefits

- Enhanced efficiency of operations, equipment and machines
- Extensive oil drain interval for a longer lubricant lifetime
- Minimizes downtime which leads to a higher maintenance efficiency
- Superior decrease of friction
- Extremely appropriate for use in a wide range of temperatures
- Extremely resistant to ageing
- Exceptional thermal durability
- Superior synthetic oil
- Highest level of protection (load stage 10) at 60°C and 90°C
- Outstandingly recommended in extremely difficult and rough conditions
- Long term stable fluid viscosity through excellent shear stability

### Specifications & Approvals

|                 |                 |                 |              |
|-----------------|-----------------|-----------------|--------------|
| ANSI/AGMA       | 9005-F16        | ISO             | 12925-1 CKE  |
| DIN             | 51517-3 CLP     | Moventas        | Field trial  |
| Hansen Sumitomo |                 | Siemens Flender | MD rev. 16.2 |
| IEC             | 61400-4         | Winergy         | Field trial  |
| ISO             | 12925-1 CKC-CKD |                 |              |

## Properties

|                                   | Method     | Unit               | Typical          |
|-----------------------------------|------------|--------------------|------------------|
| ISO Viscosity Grade               | -          | -                  | 680              |
| Density, 15 °C                    | D 4052     | g/ml               | 0.905            |
| Kinematic Viscosity, 40 °C        | D 445      | mm <sup>2</sup> /s | 667.0            |
| Kinematic Viscosity, 100 °C       | D 445      | mm <sup>2</sup> /s | 65.0             |
| Viscosity Index                   | D 2270     | -                  | 170              |
| Flash Point, COC                  | D 92       | °C                 | >190             |
| Pour Point                        | D 97       | °C                 | -33              |
| Rust Test, Proc. A and B, 24 h    | D 665      | -                  | pass             |
| Total Acid Number                 | D 664      | mg KOH/g           | 0.7              |
| Foam, 5 min blowing, seq. 1-2-3   | D 892      | ml                 | 0/0/0            |
| Foam, 10 min settling, seq. 1-2-3 | D 892      | ml                 | 0/0/0            |
| Air Release, 75 °C                | D 3427     | min                | 5                |
| FZG Test, A/8.3/90                | DIN 51354  | load stage         | pass 14          |
| FZG Test, A/16.6/90               | DIN 51354  | load stage         | pass 14          |
| FZG Grey Staining Test, 60 °C     | FVA 54-7   | load stage         | 10               |
| FZG Grey Staining Test, 90 °C     | FVA 54-7   | load stage         | 10               |
| Biodegradability, 28 days         | OECD 301 B | %                  | inherently (49%) |

The figures above are not a specification. They are typical figures obtained within production tolerances.

## Remarks

Miscible and compatible with mineral and PAO and ester based gear oils.