

## HIGHTEC CLP 680

High-performance industrial gearbox oil to meet the most stringent requirements

### Description

HIGHTEC CLP 680 is formulated for use in high-performance gearboxes that need to transfer high intermittent and abruptly occurring loads. HIGHTEC CLP 680 is formulated with selected additives tailored to the requirements. Refined, paraffin-based oils are used as base oils that are characterised by a high oxidation stability, a good viscosity-temperature behaviour and good seal compatibility. A special focus should also be placed on their good wear protection and demulsifying properties, good thermal load capacity and high ageing stability. HIGHTEC CLP 680 reduces friction and thus the temperature level in gear drives subjected to high loads which in turn leads to a reduction in wear.

### Equivalent quality in accordance with EU-law as per

- DIN 51517, p. 3 (CLP)
- U.S. Steel 224
- SEB 181 226
- AGMA 250.04, 9005
- David Brown S1.53.101

### Advantages

- Very high load carrying capacity
- High level of wear protection
- Good ageing stability
- High thermal load capacity
- Minimal tendency to foam
- Very good corrosion protection

### Recommendation

HIGHTEC CLP 680 is recommended for use in all gears for which a CLP oil is prescribed by the manufacturer. HIGHTEC CLP 680 can also be used in mechanical industrial gears subjected to high loads such as bevel, worm, spur or double spur gears.

### Notes

- CLP oils with more stringent Brugger requirements such as Brugger from 60 are also available on request.



## Typical characteristics

| Property                           | Method                      | Unit    | Value |
|------------------------------------|-----------------------------|---------|-------|
| Density at 15 °C                   | ASTM D-7042                 | g/ml    | 0.903 |
| Kinematic viscosity KV 40          | ASTM D-7042                 | mm²/s   | 680   |
| Viscosity index                    | ASTM D2270                  | -       | 94    |
| Flash point                        | ASTM D-92 / DIN EN ISO 2592 | °C      | 270   |
| Pour point                         | ASTM D-97 / DIN EN ISO 3016 | °C      | -12   |
| Copper corrosion 100 A3            | DIN 51759                   | Ranking | 1     |
| Steel corrosion, A=distilled water | DIN 51585                   | Ranking | 0-A   |
| FZG A/8.3/90 (min)                 | DIN 51354/2                 | SKS     | >12   |

These characteristics are typical for current production. The data does not constitute an assurance of properties or a guarantee of suitability for a specific application. Existing legal provisions and regulations that affect handling and usage of the products must be observed by the recipient of our products. ROWE products are continuously being developed. For this reason, ROWE retains the right to change all technical data in this product information at any time without prior announcement. Our current General Delivery and Payment Conditions apply ([www.rowe-oil.com](http://www.rowe-oil.com)).

