

Lubricants for industry.



# Gear HPX

PAO-based synthetic lubricant with high-performance formulated with extreme pressure additives developed for all types of steel industrial gears.

## Use

- Moeve Gear HPX is particularly recommended for all types of industrial steel gears in closed gearboxes operating under severe service conditions and subjected to high shock loads or high constant or intermittent stresses, including those operating at very high loads and low speeds.
- Its PAO-type synthetic formulation allows it to withstand high temperature changes and extreme pressures, making this product essential for certain heavily loaded gearboxes at low speeds and when there is a risk of micropitting.

## Benefits

- Excellent thermal and chemical stability. Reduces the formation of lacquers, deposits, and varnishes.
- High viscosity index and low pour point.
- Elastomer compatibility and seal compatibility.
- Excellent anti-wear properties. Increases the service life of the gears.
- Perfect miscibility with mineral oils.
- High resistance to degradation. Reduces oil consumption, thus increasing the lubricant's change intervals.
- High resistance to the formation of foam and emulsions with water.

## Specifications

- DIN 51517 Part 3 CLP
- ISO 12925-1 CKC/ CKD/ CKS Type
- AGMA 9005-F16 AntiScuff
- AIST 224
- DAVID BROWN S1.53.106
- FIVES CINCINNATI P-Specs

## Physical and chemical properties

| Parameter                       | Units | Method      | Gear HPX   |            |            |            |
|---------------------------------|-------|-------------|------------|------------|------------|------------|
| <b>ISO Grade</b>                | -     | -           | <b>150</b> | <b>220</b> | <b>230</b> | <b>460</b> |
| Viscosity at 40 °C              | cSt   | ASTM D-445  | 144        | 212        | 309        | 447        |
| Viscosity at 100 °C             | cSt   | ASTM D-445  | 20.8       | 25.3       | 34.3       | 46.1       |
| Viscosity index                 | -     | ASTM D-2270 | 169        | 151        | 156        | 160        |
| Density 15 °C                   | kg/l  | ASTM D-4052 | 0.849      | 0.857      | 0.858      | 0.853      |
| Flash point COC                 | °C    | ASTM D-92   | 245        | 245        | 250        | 250        |
| Pour point                      | °C    | ASTM D-97   | -51        | -48        | -45        | -42        |
| Timken OK load (lb)             | lb    | ASTM D-2782 | 65         | 70         | 70         | 70         |
| FZG test, failure stage         | -     | DIN 51354-2 | >12        | >12        | >12        | >12        |
| 4 ball test (D. footprint, max) | mm    | ASTM D-2266 | 0.3        | 0.3        | 0.3        | 0.3        |
| 4 ball test (Load, min)         | kg    | ASTM D-2783 | 250        | 250        | 250        | 250        |

## Health & safety and environment

A Material Safety Data Sheet providing information on product hazards, handling precautions, first aid measures, and relevant environmental data is available for this product as per applicable legislation.

The typical values of the characteristics appearing in the table are average values given for guidance purposes only and do not constitute a guarantee. These values may be modified without any prior warning.