repsol lubricants

Gear Oil

# MAKER SUPER TAURO

## Description

The Maker Super Tauro range of oils has been developed for applications in industrial gear assemblies with high load requirements. Its careful formulation incorporates the highest quality bases and additives, improving its anti-rust properties, its anti-foaming capacity and its resistance to oxidation. As such, these oils offer an excellent performance that puts them ahead of their competition.
They are particularly suitable for all kinds of industrial reducers and multipliers, using splash or circulating lubrication.
Very effective in all cases requiring maximum levels of oxidation resistance and/or load capacity.

## Properties

- Reduce wear under boundary lubrication conditions and extreme pressure
- Excellent thermal stability
- Very good protection against rust, preventing steel corrosion
- High de-emulsifying capacity (quick separation from water)
- Good antifoaming characteristics
- Resistance to the rupture of the lubricant film

## Quality levels, approvals and recommendations

- AGMA 9005-F16 (old 9005-E02-EP)
- AIST 224 (US Steel 224)
- BALIÑO 0074GE-ES for stern tube (100)
- BALIÑO 0071GE-ES for maneuvering propeller (68)
- BATTENFELD Injection Systems (68)
- DANIELI STANDARD N. 0.000.001 - REV.15 (150, 220, 320, 460, 680)*
- DAVID BROWN SANTASALO MDI-170-H
- DIN 51517/3 - CLP
- ENGEL Engel Injection Moulding Machines (320)*
- FIVES CINCINNATI P-34 (680)
- FIVES CINCINNATI P-35 (460)
- FIVES CINCINNATI P-59 (320)
- FIVES CINCINNATI P-63 (68)
- FIVES CINCINNATI P-74 (220)
- FIVES CINCINNATI P-76 (100)
- FIVES CINCINNATI P-77 (150)
- FIVES CINCINNATI P-78 (1000)
- IBERCISA Bearings (220, 320)*
- ISO 12925-1 CKD
- LEMASA High Pressure Pumps (220)*
- Loesche M (100, 150, 220, 320, 460, 680)*
- MANULI Gear (320)*
- NEGRI BOSSI ELEOS, eCANBIO JANUS Y VESTA series (68, 320)*
- REINTJES BV1597/2, BV2060/2 (100)*
- REINTJES BV1597/4, BV2060/4 (150)*
- SCHOTTEL GOST 23652-79 TAP-15V (68, 100, 150, 220)*
- WEG-CESTARI WCG20 (220)*
- WEG-CESTARI WCG50 (320)*

*Formal approval

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## Technical specifications

| | UNIT | METHOD | VALUE | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ISO Viscosity Grade | | | 68 | 100 | 150 | 220 | 320 | 460 | 680 | 1000 |
| Density at 15 °C | g/cm3 | ASTM D4052 | 0,883 | 0,889 | 0,893 | 0,897 | 0,901 | 0,904 | 0,908 | 0,903 |
| Kinematic viscosity at 40 °C | cSt | ASTM D445 | 68 | 100 | 150 | 220 | 320 | 460 | 680 | 1000 |
| Kinematic viscosity at 100 °C | cSt | ASTM D445 | 8,5 | 11 | 14,5 | 19 | 23 | 30 | 40 | 50 |
| Viscosity index | - | ASTM D2270 | 98 | 97 | 97 | 95 | 93 | 92 | 95 | 95 |
| Flash point, open cup | °C | ASTM D92 | 230 | 245 | 260 | 260 | 260 | 260 | 260 | 260 |
| Pour point | °C | ASTM D97 | -12 | -12 | -9 | -9 | -9 | -9 | -9 | -6 |
| FZG (A/8,3/90): Failure load stage | - | ISO 14635 | ›12 | ›12 | ›12 | ›12 | ›12 | ›12 | ›12 | ›12 |
| Corrosion Cu, 3hrs 100 °C | - | ASTM D130 | 1b | 1b | 1b | 1b | 1b | 1b | 1b | 1b |
| Rust, Methods A and B | - | ASTM D665 | Pasa | Pasa | Pasa | Pasa | Pasa | Pasa | Pasa | Pasa |
| TAN | mg KOH/g | ASTM D664 | 0,20 | 0,20 | 0,20 | 0,20 | 0,20 | 0,20 | 0,20 | 0,20 |
| Timkem load | lb | ASTM D2782 | ›60 | ›60 | ›60 | ›60 | ›60 | ›60 | ›60 | ›60 |
| Water separability at 54 °C | min | ASTM D1401 | ‹30 | - | - | - | - | - | - | - |
| Water separability at 82 °C | min | ASTM D1401 | - | ‹30 | ‹30 | ‹30 | ‹30 | ‹30 | ‹60 | ‹60 |

The above mentioned characteristics are typical values and should not be considered product specifications.