



# 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

- ENGEL: Engel Injection Moulding Machines\* (320)
  - LEMASA\* (220)
  - REINTJES: BV1597/2, BV2060/2\* (100)
  - SCHOTTEL: GOST 23652-79 TAP-15V \* (100, 150, 220, 68)
  - AGMA: 9005-F16 (100, 1000, 150, 220, 320, 460, 68, 680)
  - DAVID BROWN: S1.53.101 Type M, A & E (100, 1000, 150, 220, 320, 460, 68, 680)
  - Fives Cincinnati: P-34 (680)
  - Fives Cincinnati: P-63 (68)
  - Fives Cincinnati: P-74 (220)
  - Fives Cincinnati: P-77 (150)
  - ISO: 12925-1 CKD (100, 1000, 150, 220, 320, 460, 68, 680)
  - IBERCISA\* (220, 320)
  - MANULI: Gear\* (320)
  - REINTJES: BV1597/4, BV2060/4 \* (150)
  - SIEMENS: Gamesa GearBox\* (100, 1000, 150, 220, 320, 460, 68, 680)
  - AIST: 224 (US Steel 224) (100, 1000, 150, 220, 320, 460, 68, 680)
  - DIN: 51517/3 - CLP (100, 1000, 150, 220, 320, 460, 68, 680)
  - Fives Cincinnati: P-35 (460)
  - Fives Cincinnati: P-69 (320)
  - Fives Cincinnati: P-76 (100)
  - Fives Cincinnati: P-78 (1000)
- \*Formal approval



## MAKER SUPER TAURO

## Technical specifications

	UNIT	METHOD	VALUE							
ISO Viscosity Grade			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
Kinematic viscosity at 40 °C	cSt	ASTM D445	68	100	150	220	320	460	680	1000
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
Corrosion Cu, 3hrs 100 °C		ASTM D130	1b	1b	1b	1b	1b	1b	1b	1b
		ASTM D665	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
TAN	mg KOH/g	ASTM D664	0,20	0,20	0,20	0,20	0,20	0,20	0,20	0,20
Water separability at 54 °C	min	ASTM D1401	<30							
Water separability at 82 °C	min	ASTM D1401		<30	<30	<30	<30	<30	<60	<60
FZG (A/8,3/90): Failure load stage		ISO 14635	>12	>12	>12	>12	>12	>12	>12	>12
Timkem load	lb	ASTM D2782	>60	>60	>60	>60	>60	>60	>60	>60
Density at 15 °C	g/cm3	ASTM D4052		0.889	0.893	0.897	0.901	0.904		0.903

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