



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

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|---|---|
| • ENGEL: Engel Injection Moulding Machines* (320) | • IBERCISA* (220, 320) |
| • MANULI: Gear* (320) | • REINTJES: BV1597/2, BV2060/2* (100) |
| • REINTJES: BV1597/4, BV2060/4 * (150) | • SCHOTTEL: GOST 23652-79 TAP-15V * (100, 150, 220, 68) |
| • Siemens: Gamesa GearBox* (100, 1000, 150, 220, 320, 460, 68, 680) | • AGMA: 9005-F16 (100, 1000, 150, 220, 320, 460, 68, 680) |
| • AIST: 224 (US Steel 224) (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) |
| • DIN: 51517/3 - CLP (100, 1000, 150, 220, 320, 460, 68, 680) | • Fives Cincinnati: P-34 (680) |
| • Fives Cincinnati: P-35 (460) | • Fives Cincinnati: P-63 (68) |
| • Fives Cincinnati: P-69 (320) | • Fives Cincinnati: P-74 (220) |
| • Fives Cincinnati: P-76 (100) | • Fives Cincinnati: P-77 (150) |
| • Fives Cincinnati: P-78 (1000) | • ISO: 12925-1 CKD (100, 1000, 150, 220, 320, 460, 68, 680) |

*Formal approval



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Technical specifications

	UNIT	METHOD	VALUE							
ISO Viscosity Grade			68	100	150	220	320	460	680	1000
Viscosity at 100 °C	cSt	ASTM D445	8.5	11	14.5	19	23	30	40	50
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	°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
Resistance to rust, A and B		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	mín	ASTM D1401	<30	<30	<30	<30	<30	<30	<60	<60
FZG, Step 12		DIN 51354	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Timkem load	lb	ASTM D2782	>60	>60	>60	>60	>60	>60	>60	>60

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