



SUPER TAURO

INDUSTRY

Description

These oils are designed for the lubrication of industrial gear assemblies of all types including those which are heavily charged and which work in severe conditions. They are obtained by adding additives to selected base stocks, with high viscosity indices, to improve properties such as resistance to oxidation, foam formation, antirust; sulphur-phosphorous additives are included, which endows them with excellent extreme pressure (EP) properties.

Recommended uses

They are specially suitable for all types of industrial reducers or multipliers lubricated by dripping or circulation. They are very suitable for all cases where maximum levels of resistance to oxidation and/or loading capacity are required.

Properties

- They reduce wear in severe lubrication conditions.
- Excellent oxidation stability.
- Very good antirust protection.
- Great water separation capacity.
- Not corrosive for steel or its alloys.
- Good anti-foam characteristics.
- Resistance to breaking lubricating film.

Quality level

- DIN-51517 Part 3 CLP
- ISO 6743/6 - CKD
- Cincinnati Lamb P-35, P-59, P-63, P-76, P-77, P74 and P-78
- David Brown S1.53.101
- US Steel 224
- AGMA 9005-E02-EP

Technical characteristics

	UNIT	METHOD	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE
ISO Grade			68	100	150	220	320	460	680	1000
Viscosity at 100	cSt	ASTM D 445	8.5	11	14.5	19	23	30	40	50
Viscosity at 40	cSt	ASTM D 445	68	100	150	220	320	460	680	1000
Viscosity rate		ASTM D 2270	98	97	97	95	93	92	95	95
Density at 15°C	g/cm ³	ASTM D 4052	0.883	0.889	0.894	0.899	0.904	0.908	0.909	0.909
Flash point	°C	ASTM D 92	230	245	260	260	260	260	260	260
Pour point	°C	ASTM D 97	-12	-12	-9	-9	-9	-9	-9	-6
Disemulsion										
- Free water	cm ³	ASTM D 2711	80 min.	80 min.	80 min.	80 min.	80 min.	80 min.	80 min.	80 min.
- Emulsion	cm ³		1 max.	1 max.	1 max.	1 max.	1 max.	1 max.	1 max.	1 max.
Corrosiveness to copper 3h at 100°C		ASTM D 130	1b	1b	1b	1b	1b	1b	1b	1b
Resistance to rust, A and B.		ASTM D 665	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
TAN (mg KOH/g)		ASTM D 664	0.45	0.45	0.45	0.45	0.45	0.45	0.6	0.6
Disemulsion	min	ASTM D 1401	< 30	< 30	< 30	< 30	< 30	< 30	< 60	< 60
FZG, Step 12		DIN 51354	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Available in

Bulk: ISO 150 and 220. 875 kg container: ISO 150, 220 and 320. 185 kg drum: all grades. 18 kg drum: ISO 220 and 460.

■ Hazard identification

This product is not classified as toxic or hazardous under current legislation.

■ Handling

Minimum precautions should be taken to avoid prolonged contact with the skin. The use of gloves, visors or glasses is recommended to avoid splashes.

■ Health and Safety Hazards

Inhalation: Given that it is not a particularly volatile product, the risk of inhalation is minimal.

Ingestion: Do not induce vomiting. Provide water. Seek medical advice.

Contact with the skin: Wash with plenty of water and soap.

Eyes: Wash thoroughly with water.

General measures: Seek medical advice.

■ Fire-fighting measures

No special measures required.

Fire-extinguishing measures: Foams, dry chemicals, CO₂, water spray. Do not apply the jet of water directly as this could cause the product to disperse.

■ Environmental precautions

Danger of physical pollution if spilt (water, coastlines, soil, etc.) due to its floatability and oily consistency that may harm flora and fauna on contact. Avoid material getting into water outlets.

Decontamination and cleaning: Treat like an accidental oil spill. Prevent dispersion using mechanical barriers and remove by physical or chemical means.

A safety information file is available on request.

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Unless otherwise indicated, the figures cited in technical characteristics should be considered typical.

Technical data sheet for Lubricants. Review 4 December 2008.