



ZetaLube

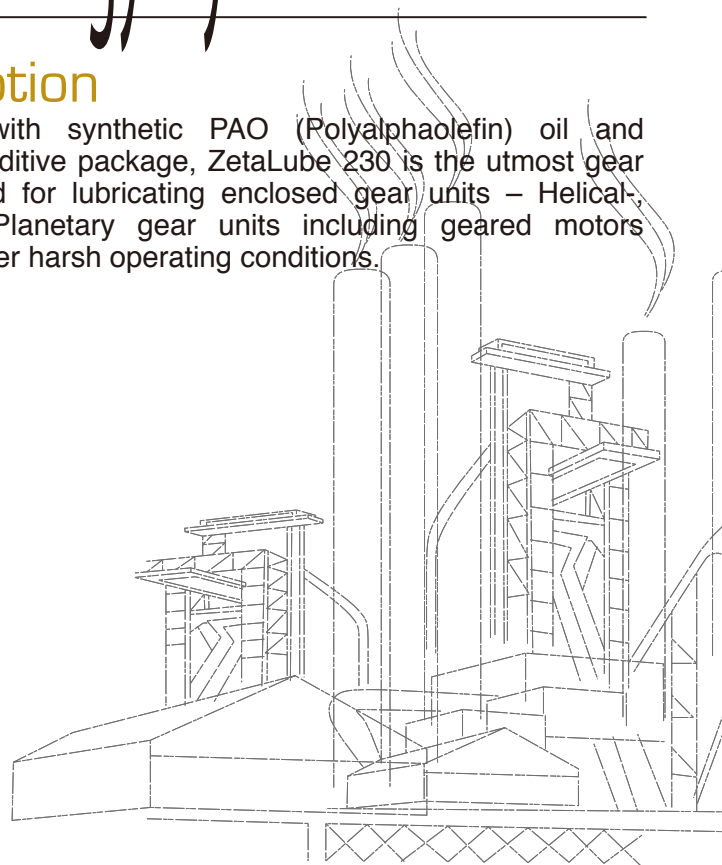
A New Lubricity Dimension
Evolved From Experience



ZetaLube. 230 ReNergy Synthetic Gear Oil

Description

Formulated with synthetic PAO (Polyalphaolefin) oil and proprietary additive package, ZetaLube 230 is the utmost gear oil engineered for lubricating enclosed gear units – Helical, Bevel- and Planetary gear units including geared motors operating under harsh operating conditions.



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Features and Benefits

- High micropitting and bearing protection
- Long service life
- Outstanding rust and corrosion protection
- Proven paint and elastomer compatibility
- Ashless
- Available in wide range of ISO viscosity grades – 220 / 320 / 460
- Good thermal and oxidative stability
- Low sludging
- Excellent foam control
- Good demulsibility

Recommended Applications

- For lubrication of most helical, bevel and planetary gear units subjected to moisture and wide temperature fluctuation(-30°C to 200°C), etc. in almost all industries, including wind industry.
- For gear systems demanding the following performance requirements:
 - Siemens Flender Gear Unit (Approval – Rev.9)- U.S.Steel 224
 - AGMA 9005-E02 - DIN 51517 part 3
 - ISO 12925-1 CKC/CKD - David Brown S1.53.101

Typical Data

TEST	ASTM TEST METHOD	ISO VG 220	ISO VG 320	ISO VG 460
Appearance	Visual	Light Yellow		
Density, kg/L @ 15°C	D-1298	0.8546	0.8568	0.8530
Viscosity, cSt @ 40°C	D-445	218	322	463
@ 100°C	D-445	27.8	37.4	49.0
Viscosity Index	D-2270	164	165	166
Flash Point, COC, °C	D-92	250	254	261
Pour Point, °C	D-97	-45	-39	-35
Copper Strip Corrosion	D-130	1a	1a	1a
Rust Prevention	D-665	Pass	Pass	Pass
Oxidation (312 hrs @ 95°C) - Viscosity Increase %	D-2893	3.7 max	3.7 max	3.7 max
Foam Seq I, mls	D-892	0/0	0/0	0/0
FZG Scuffing load test, A/8.3/90, Fail stage	DIN 51354-2	>12	>12	>12
Scuffing load test in FZG test rig, A/16.6/90, Fail stage	DIN ISO 14635-1	>12	>12	>12
FZG Micropitting test, Fail stage	FVA No. 54	10	10	10
FE 8 Rolling bearing test for roller and cage	DIN 51819-3	Pass	Pass	Pass
Compatibility with internal coatings P22-8050 and Nuvopur Aqua Primer 510.1.1499		Pass	Pass	Pass
Compatibility with Loctite 128068 liquid sealing compound		Pass	Pass	Pass
Compatibility with elastomer seal material 75 FKM 170055, 72 NBR 902 and 75 FKM 585		Passed both static and dynamic tests	Passed both static and dynamic tests	Passed both static and dynamic tests

The data shown are typical value and may vary.

Authorized Distributor

Pack-size

20 Litre Plastic Container