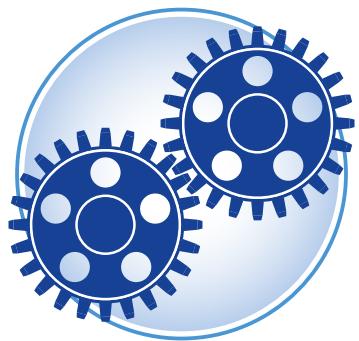


Epona Z 220

Mineral oils for enclosed gears.



APPLICATIONS	FEATURES AND BENEFITS
Enclosed gears, bearings, couplings.	Epona Z 220 has been specially designed for lubricating enclosed gears operating under severe conditions.
Bevel and spur gears.	Excellent extreme-pressure and anti-wear properties ensuring micro pitting protection.
Bearings and gear couplings.	Excellent seal compatibility.
Worm gears.	

SPECIFICATIONS AND APPROVALS			
✓ DIN 51517/3 - CLP	✓ Renk (Gearbox)		
✓ ISO 12925-1 CKD/CKSMP	✓ Schottel (Propellers & Thrusters)		
✓ AGMA 9005 – F16 Antiscuffing	✓ Westfalia (Purifiers with Gear Drive)		
✓ JIS K 2219:2006 (Class 2)	✓ TTS Marine (Cranes)		
✓ David Brown S1.53.101 E	✓ Samgong (Winches)		

TECHNICAL DATA : EPONA Z 220			
CHARACTERISTICS	METHODS	UNITS	TYPICAL VALUES*
Density at 15°C	ISO 3675	kg/m³	895
Viscosity at 40°C	ISO 3104	mm²/s	220
Viscosity at 100°C	ISO 3104	mm²/s	19
Viscosity Index	ISO 2909	–	97
Pour Point	ISO 3016	°C	- 18
Flash Point (OC)	ISO 2592	°C	244
FZG Micropitting	FVA 54	Fail stage	10 high
FZG A/8.3/90	DIN 51 354/2	Fail stage	14 pass
GFT Class	–	–	–

*The specifications above are for illustrative purposes and communicated for information only.

CUSTOMER BENEFITS

✓	Excellent chemical stability and resistance to oxidation, for a long period of running without maintenance.
✓	Outstanding protection to rust and corrosion of copper alloys.
✓	Very good resistance to foaming and emulsion formation.

GENERAL RECOMMENDATIONS

COMPATIBILITY	STORAGE
Not compatible with PAG based lubricants.	This product should be stored under cover in clean, dry conditions and protected from frost.
Please consult your Lubmarine Lubrication Engineer should you have any questions.	Recommended storage temperature range is 5°C to 50°C. Drums that are stored on deck should be raised on pallets and covered to protect from the elements.

COMPLIMENTARY PRODUCTS AND SERVICES

✓	LubDiag – Oil Analysis – Laboratory based used oil analysis program.
✓	LublInsight – Suite of onboard testing equipment.
✓	LubSkills – Lubmarine Engineers are on hand at worldwide locations to assist with lubrication concerns.
✓	Lube On Ship – Visualize your lubricants needs aboard Lubmarine's innovative virtual vessel. lubmarine.totalenergies.com/lube-on-ship

