



## Description

Extreme pressure gear oils.

## Applications

All types of gears and bearings which require an 'Extreme Pressure' lubricant.

- + Typical applications aboard ship, include gear drives for the main propulsion system and also:
  - centrifuges
  - deck machinery
  - elevators

## Auxiliary Mineral Lubricants

### Approvals

EPONA Z range meets the following specifications:

- + NF-ISO 6743-6 category CKD
- + DIN 51517 Part 3 (group CLP)
- + AGMA 9005-D94EP

EPONA Z range conforms to conditions for manufacturer approvals such as DAVID BROWN, FLENDER.

### Features and Benefits

- + Excellent resistance to oxidation.
- + Low pour point.
- + Good demulsibility.
- + Good antirust properties.
- + Non-corrosive to copper metals.
- + Very good anti-wear and extreme pressure properties.

## Typical Characteristics

	Methods	Units	68	100	150	220	320	460
ISO Grade			68	100	150	220	320	460
Density at 15°C	ISO 3675	kg/m <sup>3</sup>	881	884	892	893	901	903
Kinematic viscosity at 40°C	ISO 3104	mm <sup>2</sup> /s	68.1	107	153.4	216.9	319.1	452.2
Kinematic viscosity at 100°C	ISO 3104	mm <sup>2</sup> /s	8.7	11.8	14.8	18.5	23.7	29.9
Viscosity index	ISO 2909		99	98	96	95	93	95
Flash Point (COC)	ASTM D 92	°C	230	233	227	270	264	256
Pour Point	ISO 3016	°C	- 24	- 21	- 27	- 21	- 15	- 12
FZG Test A/8 3/90	DIN 51 354/2		13th	13th	13th	13th	13th	13th
FSG Micropitting FVA IIV	FVA 54	-	-	-	-	10th	10th	10th
GFT Class		-	-	-	-	high	high	high

Characteristics of this chart are indicative typical values.

### Handling, Health & Safety

Lubricants consisting of highly refined mineral oils with specific additives. In normal conditions of use, these lubricants present no particular toxic hazard. All lubricants, of any kind, should always be handled with great care, particularly avoiding any contact with the skin. Prevent any risk of splashing, and keep away from combustible materials. Store under cover and away from any risk of contamination.

A safety data sheet complying with current legislation is available at: [www.quickfds.com](http://www.quickfds.com) and [www.totallubmarine.com](http://www.totallubmarine.com)