

MAXIGEAR ATOX - Series

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DESCRIPTION:

Multifunctional **ATOXIC 100% synthetic** lubricant, manufactured with Polyalphaolefin (PAO) oils and ash-free additives, especially for the lubrication of gears and closed gearboxes. Also ideal for hydraulics, compressors, chains and general greasing, where oils with these viscosity grades are required.

Formulated from FDA (Food and Drug Administration) approved components, they comply with the USDA-H1 standard, required for those lubricants used in the food and pharmaceutical industry where there is a risk of technically unavoidable incidental contact between the lubricant and the food.

PROPERTIES AND ADVANTAGES:

- ✓ Excellent ability to withstand very high loads, as well as a very extensive range of working temperatures.
- ✓ Low coefficient of friction and increased wear protection, which, together with higher thermal conductivity and heat dissipation capacity, results in lower operating temperatures and additional energy savings compared to mechanisms using conventional mineral oils.
- ✓ Excellent resistance to thermal degradation, ageing and rusting, preventing the formation of harmful oxidation products, even at high temperatures, while maintaining excellent anti-corrosion properties.
- ✓ Reduced build-up of deposits, keeping the gears in an optimum state of cleanliness.
- ✓ Its high viscosity index results in a minimal viscosity variation against temperature changes.
- ✓ High adherence and greasiness.
- ✓ Excellent fluidity at extreme low temperatures, making it especially useful in freezing systems and industrial cold stores.
- ✓ Compatible with elastomers (NBR, FPM), gaskets, seals and paints used in food manufacturing and packaging machinery.
- ✓

FIELDS OF APPLICATION:

- ✓ Lubrication of all types of gears under closed crankcase.
- ✓ Piston, vane and blower compressors; vacuum pumps and hydraulic units requiring high viscosity oils (ISO-100 and higher).
- ✓ Lubrication of bearings, plain and anti-friction bearings under crankcase or by circulation systems in closed circuits.
- ✓ Products also suitable and recommended for the lubrication of chains working in extreme temperature ranges.
- ✓ General greasing of mechanical parts in the food and pharmaceutical industry.

SPECIFICATIONS / QUALITY LEVEL:

| <u>GEARBOXES</u> | <u>COMPRESSORS</u> | <u>HYDRAULIC SYSTEMS</u> |
|---------------------------|-----------------------|--------------------------|
| DIN 51517/3: CLP | DIN 51506: VCL y VDL | DIN 51524/3: HV |
| ISO 1295-1: CKC, CKD, CKS | ISO 6521-1: DAC y DAJ | ISO 11158: HV |
| ISO 6743/6: CKC, CKD, CKS | ISO 6743/3: DAC y DAJ | ISO 6743/4: HV |

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APPROVALS:

Category Code H1
NSF Registration No.: 141981
HALAL License No.: IH-986/2.4/M/60
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TECHNICAL DATA:

| PHYSICOCHEMICAL CHARACTERISTICS | STANDARD | 100 | 150 | 220 | 320 | 460 |
|----------------------------------------------------|-------------|--------|---------|---------|---------|---------|
| ISO grade | ISO 3448 | 100 | 150 | 220 | 320 | 460 |
| Viscosity at 40 °C (cSt) | ASTM D-445 | 90-110 | 135-165 | 198-242 | 288-352 | 414-506 |
| Viscosity at 100 °C (cSt) | ASTM D-445 | 13-15 | 17-20 | 23-26 | 29-35 | 39-45 |
| Viscosity Index; min. | ASTM D-2270 | 140 | 140 | 140 | 140 | 140 |
| Flash point, °C, min | ASTM D-92 | 230 | 240 | 240 | 240 | 240 |
| Pour point, °C, max | ASTM D-97 | -40 | -40 | -40 | -35 | -35 |
| 4-ball AW test (40 Kg/1200rpm/75°C/1h), scar mm | ASTM D-4172 | < 0.35 | < 0.35 | < 0.35 | < 0.35 | < 0.35 |
| FZG test (load phase pass) | DIN 51354/2 | >12 | >12 | >12 | >12 | >12 |
| Copper corrosion (3h, 100 °C), grade max. | ASTM D-130 | 1a | 1a | 1a | 1a | 1a |

" Note : These data represent average values after different tests. Given the wide variety of operating conditions, they do not constitute a basis for specifications. Olipes SL reserves the right to modify the indicated data without prior notice.

HOW TO USE:

Eliminates rest of previous lubricants before applying any oil from the MAXIGEAR ATOX series. Oil compatible with PAO / Ester / Mineral bases which comply with standard H1.
Applicable through immersion, circulation, injection, drip, brush-paintbrush, manual oiler systems, etc.
Store in an enclosed area. Do not expose to sunlight.

PACKAGING:

20L jerrycan and 200L drum.