

# IGO SXPB SERIES

## Premium Synthetic Industrial Gear Oils

IGO SXPB series are advanced synthetic heavy duty industrial gear oil formulated with polyalkylene glycol base fluids and additives. They offer outstanding lubrication performance under severe operating conditions, including exceptional resistance to high pressures, long service life and reinforced resistance to micro-pitting.

IGO SXPB series are primarily recommended for the lubrication of worm reduction gear boxes, where the low coefficient of friction of the PAG base fluid improves efficiency and consequently reduces power consumption and operating temperatures.

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## Benefits

- Excellent load carrying capacity providing long component life even under shock loading conditions
- Enhanced energy efficiency and lower operating temperatures in worm gear applications
- Outstanding protection against wear and micro-pitting
- Excellent resistance to oxidation and corrosion
- Improved thermal stability

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## Applications

- Recommended for industrial worm gear reduction systems operating under severe operating conditions and wide temperature variations
- Suitable for all types of gears and bearings where use of conventional mineral oil based product is restricted by the severity of operating conditions. Typical gear applications include rolling and grinding mills, paper making and mining machines, calenders, stirrer units, rubber kneaders, furnace doors, conveyors, chains, winches, dredges, cranes, etc.
- Suitable for lubrication of bearings and other components in circulating and splash-lubricated systems
- IGO SXPB Series are incompatible with most mineral and synthetic oils (PAO). It is recommended to remove all traces of mineral oil by first draining the system warm, particular attention being paid to reservoirs, lines etc., where oil may be trapped.
- IGO SXPB Series are compatible with most seal types, including nitrile, EPDM, Viton, PTFE and nylon, however not with natural rubber. Polyurethanes base elastomers, leather, cork, asbestos, paper and board should be avoided.
- IGO SXPB Series are not compatible with phenolic/alkyd type industrial paints, so the internal surfaces of gearboxes should be left unpainted or, alternatively, coated with two-part epoxy formulations.

## Specifications

IGO SXPG SERIES						
Meets or exceeds the following industry specifications		150	220	320	460	680
AIST 224 (ex US STEEL 224)		✓	✓	✓	✓	✓
ANSI/AGMA 9005-E02 (EP)		✓	✓	✓	✓	✓
Textron David Brown S1.53.105 G		✓	✓	✓	✓	✓
DIN 51517 Part 3 : Category CLP		✓	✓	✓	✓	✓
Typical properties						
Test parameters	Method					
Base fluid		PAG				
Viscosity @ 40 °C, cSt	ISO 3104	150	220	320	460	680
Viscosity Index	ISO 2909	220	230	240	250	260
Flash Point, °C	ISO 2592	230	230	230	230	230
Pour Point, °C	ISO 3016	- 30	- 30	- 30	- 30	- 30
Copper corrosion	ISO 2160	1a	1a	1a	1a	1a
4-ball weld load, N	ASTM D2783	4000	4000	4000	4000	4000
FZG Load Carrying Test	ISO 14635-1mod	≥14	≥14	≥14	≥14	≥14

Above characteristics are mean values given as information. They do not constitute a specification.

## Health and safety

This lubricant is unlikely to produce any significant health or safety hazard when used in the application it has been designed for and according to the recommendations provided in the Material Safety Data Sheet. MSDS are available upon request through your sales advisor.

When disposing of used oil, please observe all current regulations and protect the environment.