

MaxPro1 ING oils are premium quality industrial gear lubricants designed to provide excellent extreme pressure (EP) and load carrying properties. They are oxidative stable and exhibit anti-rust/anti-corrosion, demulsibility, and anti-foam characteristics.

MaxPro1 ING oils are formulated with advanced sulfur-phosphorus chemistry which provides improved anti-wear and friction-reducing properties. This in turn causes gear sets to operate cooler and more efficiently. The **MaxPro1 ING** series of oils surpasses the minimum requirements of CLP lubricating oils such as those according to **DIN 51 517 Part 3** and **ISO 12925-1: CKC, CKD**.

APPLICATIONS

- Enclosed industrial gear drives operating under heavy loads, high peak loads or intermittent shock loads
- Enclosed spur, bevel, helical, herringbone and planetary gear sets where the equipment manufacturer specifies an AGMA EP gear oil
- Heavily loaded plain and rolling element bearings

FEATURES AND BENEFITS

- Excellent scuffing load capacity and very good protection against wear, especially in the area of mixed frictions
- Excellent protection at temporarily operations
- Film-forming corrosion protection for closed gear boxes, protection of steel surfaces as well as non-ferrous metal components
- Highest compatibility and efficient maintenance
- Low tendency to foaming and very good air and water separation abilities

PERFORMANCE LEVEL

MaxPro1 ING series meets the performance requirements of:

- AGMA 9005-E02
- David Brown S1.53.101(E)
- ISO 12925-1/ISO 6743-6 CKC, CKD
- DIN 51517 Part III
- AIST 224
- Chinese GB 5903 L-CKC, L-CKD



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TYPICAL PROPERTIES

ISO VG Grade	Test Method	68	100	150
AGMA Number		2 EP	3 EP	4 EP
Product Code		6162	6163	6164
Density @ 15°C, kg/l	ASTM D4052	0.878	0.886	0.890
Colour ASTM	ASTM D1500	<1.5	2.0	<2.5
Viscosity, cSt @ 40°C @ 100°C	ASTM D445	67.8 8.72	96.8 11.0	146.0 14.5
Viscosity Index	ASTM D2270	100	98	97
Flash Point COC, °C	ASTM D92	220	228	230
Pour Point, °C	ASTM D97	-24	-21	-18
FZG Gear Test A8.3/90 (visual), Damage load stage	DIN 51354 Part 2	12	12	12
Rust Prevention	ASTM D665A	Pass	Pass	Pass
Copper Corrosion	ASTM D130	1b	1b	1b

ISO VG Grade	Test Method	220	320	460
AGMA Number		5 EP	6 EP	7 EP
Product Code		6165	6166	6167
Density @ 15°C, kg/l	ASTM D4052	0.891	0.896	0.902
Colour ASTM	ASTM D1500	2.5	3.0	<3.5
Viscosity, cSt @ 40°C @ 100°C	ASTM D445	222.3 19.2	316.7 23.9	446.4 30.1
Viscosity Index	ASTM D2270	97	96	96
Flash Point COC, °C	ASTM D92	234	242	250
Pour Point, °C	ASTM D97	-18	-15	-12
FZG Gear Test A8.3/90 (visual), Damage load stage	DIN 51354 Part 2	12	12	12
Rust Prevention	ASTM D665A	Pass	Pass	Pass
Copper Corrosion	ASTM D130	1b	1b	1b



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AVAILABLE SIZE AND PART NUMBER

	18L	200L
ING 68	6162-18	6162-200
ING 100	6163-18	6163-200
ING 150	6164-18	6164-200
ING 220	6165-18	6165-200
ING 320	6166-18	6166-200
ING 460	6167-18	6167-200

ING SERIES

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