

## Industrial Gear Oils (Synthetic Base)

(November 2019 edition)

**AMALIE Industrial Gear Oils (Synthetic Base)** are synthetic based lubricants containing extreme pressure (EP) additives. Their synthetic formulation allows for greater oxidation stability, reduced frictional coefficients, and longer service life than mineral oil-based products. They are formulated to provide excellent water separability, wear protection, seal compatibility, and to reduce micro-pitting enabling your gearbox to run longer. These gear oils offer outstanding performance for enclosed gear applications.

**AMALIE Industrial Gear Oils (Synthetic Base)** have good filtration properties and are extremely resistant to gear wear and scuffing. These oils are formulated for highly loaded enclosed industrial gear boxes with splash or forced circulation systems. They may be used to lubricate steel-on-steel, spur, helical, bevel, or planetary gear drives.

### Benefits

- Longer Service Life Than Mineral Products
- Greater Thermal and Oxidative Stability
- Better Energy Efficiency

### Typical Properties

ISO grade	220	320	460	680	1000	3200
API Gravity	33.5	33	32	31.5	31.0	29.0
Flash Pt. °C	>250	>245	>245	>245	>245	>235
Viscosity cSt@40°C	220	320	460	680	1000	3200
Viscosity cSt@100°C	26.0	34.5	45	60	81	200
Viscosity Index	145	150	150	155	160	175
Pour Pt. °C	-30	-27	-27	-24	-24	-18
AGMA Grade	5S	6S	7S	8S	8AS	-
Timken OK Load	≥70	≥70	≥70	≥70	≥70	≥70
FZG Load Stage	>14	>14	>14	>14	>14	>14
Water Separation, D2711	Pass	Pass	Pass	Pass	Pass	Pass
Oxidation, S-200	Pass	Pass	Pass	Pass	Pass	Pass
Foam Suppression, D892	Pass	Pass	Pass	Pass	Pass	Pass

Typical values are listed. Variations not affecting the performance of this fluid may occur during production.

### Applications

**AMALIE Industrial Gear Oils (Synthetic Base)** meet the following OEM, Industry and national specifications:

ANSI/AGMA 9005-E02 (EP); ISO 12925-1 Type CKD; ISO 5157-3 (CLP); China National Standard GB 5903-2011 L-CKD; AIST (US Steel) 224, David Brown S1.53.106 in grades below ISO 1000.

### Additional Information

Please use proper handling and care that you would use with any motor oil. Contact your AMALIE Sales Representative for SDS.