

CHEMLUBE® 700 SERIES

ADVANCED PERFORMANCE PAO GEAR & HYDRAULIC LUBRICANTS

PRODUCT CODES: CHEMLUBE 724, 725, 726, 727, 729, 730, 732, 734, 736, 739

PRODUCT OVERVIEW

The Chemlube® 700 Series is a full synthetic, advanced product line designed heavy duty gear and hydraulic applications. This series is recommended for gear drives and hydraulic systems where heavy loads, high temperatures and adverse conditions are expected. Built with the latest component technology, the Chemlube 700 Series provides advanced performance in demanding applications in a package unique to the industry.

All viscosity grades of the Chemlube 700 Series offer outstanding service in terms of equipment protection, extended oil life and problem-free operation serving to enable increased machine productivity and reduced operational costs. Additional product features are: excellent low temperature operation, improved air release performance, excellent resistant to mechanical shear, low traction coefficients, high oxidative and thermal stability, and low foaming properties. The antiwear package offers premium EP protection for the most difficult applications including heavily loaded gear sets in adverse conditions. The Chemlube 700 Series maybe used in applications with soft metals such as worm gears as the AW/EP system is low ash and non-corrosive to metal surfaces. These products meet Siemens / Flender micro pitting requirements and can also be used a wide variety of industrial applications. They exhibit excellent compatibility with seals, hoses, gaskets and paint.

APPLICATION DETAIL

- Rotary Screw Compressors
- Rotary Vane Compressors
- Vacuum Pumps / Blowers
- Centrifugal Compressors
- Reciprocating Compressors
- Hydraulic Systems
- Mist Systems
- Enclosed Gear Units: i.e., Spur, Helical, Bevel & Worm Gears
- Plain and Roller Contact Bearings
- Pulp & Paper Machines
- Circulating and Splash Lubricated Systems

KEY BENEFITS

- Advanced synthetic design for premium performance
- High viscosity index for wide temperature performance
- Increased Thermal & Oxidative Stability
- Excellent EP protection for extended machine component life
- Ultrachem 700 Series lubricants meet the requirements of Flender's micro pitting and have the following approvals: U.S. Steel 224; David Brown Type E; C Machines P-76; Cincinnati Milacron.

QUICK POINTS...

Name: *700 SERIES*

ISO Grade: *22 -1000*

Base: *Semi-Synthetic*

Additive System: *AW / R&O / CI*

Color: *Light Amber*

Food Grade: *No*

Main Application: *Gears*

TYPICAL CHARACTERISTICS**

PRODUCT DATA	ASTM METHOD	Chemlube 724	Chemlube 725	Chemlube 726	Chemlube 727	Chemlube 729	Chemlube 730	Chemlube 732	Chemlube 734	Chemlube 736	Chemlube 739
ISO Grade	D2422	32	46	68	100	150	220	320	460	680	1000
Viscosity, 40 °C	D445	32.9	47.0	67.0	104.0	163.0	222.0	312.0	469.0	671.0	943.0
Viscosity, 100 °C	D445	6.20	7.90	10.20	13.40	17.90	22.20	28.50	38.50	48.40	62.20
Viscosity Index	D2270	140	141	135	154	149	149	153	150	151	172
Flash Point, °C/°F	D92	240/464	240/464	238/460	260/500	260/500	262/504	270/518	270/518	270/518	270/518
Pour Point, °C/°F	D97	-48/-54	-48/-54	-48/-54	-45/-49	-45/-49	-35/-31	-33/-27	-27/-17	-25/-13	-23/-9
Copper Corrosion	D130	1B	1B	1B	1B	1B	1B	1B	1B	1B	1B
Rust Prevention	D 665	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Evaporation Loss, %	D 972	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
FZG, Load stage	D5182	10	12	12	12	12	12	12	12	12	12
Specific Gravity	D1298	0.86	0.85	0.85	0.87	0.86	0.87	0.87	0.87	0.88	0.88

**Characteristics are typical of production. Slight variations in the actual data may occur which will not affect performance.

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SPECIFICATIONS

- AGMA 9005-E02-EP
- DIN 51517-3 (CLP)
- ISO L-CKD (ISO 12925-1:1996)
- U.S. Steel 224
- David Brown Type E
- C Machines P-76

COMPATIBILITY NOTES

- Compatible with mineral oils and most other hydrocarbons
- Compatible with most process gases
- Compatible with most common seal materials, plastics, and paints

SHELF LIFE

- Standard shelf life of (5) years from DOM applies to this product
- Shelf life may be extended and/or recertified upon individual case – please contact your Ultrachem, Inc. representative

HEALTH & REGULATORY STATEMENTS

- Classified as non-hazardous per OSHA GHS
- TSE/BSE compliant: product does not contain any materials of animal origin or derivatives
- FALCPA compliant: product does not contain any allergens
- RoHS compliant: product does not contain any EU RoHS substances
- REACH compliant: product does not contain any SVHC substances
- Guidelines on safety and storage may be found on the associated Safety Data Sheet (SDS@ultracheminc.com)

PACKAGING AVAILABILITY

- 5 gallon pail (18.9 L)
- 55 gallon drum (208.2 L)
- 330 gallon tote (1249.2 L)
- (2) 2.5 gallon case (18.9 L)
- (6) 1 gallon case (22.7 L)

Please contact your Ultrachem, Inc. representative for detailed information not covered in this data sheet.



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We therefore recommend you consult a FUCHS Lubricants Co. Application Engineer to discuss application conditions and the performance criteria of the products before the product is used. It is the responsibility of the user to test the functional suitability of the product and to use it with the corresponding care.

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