

Gear and Transmission Oils



High performance components
for gear and transmission oils

Cargill[®]

Meeting the demands of modern transmission systems

The requirement for higher performance gear and transmission lubricants has increased considerably in recent years due to the introduction of new and more sophisticated transmission systems.

We recognize the trends and demands of this dynamic market and have developed a range of high performance esters branded under the Priolube™ name which can help to provide:

- Reduced emissions
- Improved fuel efficiency
- Extended drain intervals
- Smoother gear changes
- Higher gear loading
- Friction control
- Low temperature fluidity
- Wear protection

Product name	Kinematic viscosity at 40°C (mm ² /s)	Kinematic viscosity at -40°C (mm ² /s)	Kinematic viscosity at 100°C (mm ² /s)	Viscosity index	Pour point (°C)	CCS at -25°C (mPa.s)	CCS at -30°C (mPa.s)	CCS at -35°C (mPa.s)	Flash point COC (°C)
Priolube 1935	14.5	2,500	3.7	149	-72	<500	<500	<500	226
Priolube 1936	26.0	19,000	5.3	139	-54	2,270	4,130	8,150	244
Priolube 1973	46.0	-	8.0	148	-44	3,660	6,780	13,500	280
Priolube 3958	10.5	1,150	3.0	146	-78	<500	<500	<500	215
Priolube 3960	19.0	4,630	4.5	163	-72	980	1,210	1,960	230
Priolube 3963	11.5	1,400	3.2	149	-78	<500	<500	<500	230
Priolube 3966	12.2	1,450	3.3	148	-78	-	-	-	235
Priolube 3970	20.0	4,000	4.4	140	-51	870	1,400	2,430	250

Product name	Kinematic viscosity at 40°C (mm ² /s)	Kinematic viscosity at 100°C (mm ² /s)	Viscosity index	Flash point COC (°C)	Pour point (°C)	TAN (mgKOH/g)	Noack weight loss at 250°C/1hr (%)	Renewability (%)
Priolube 1847	1,040	85	167	300	-24	0.10	<1	85
Priolube 1929	1,700	125	175	310	-21	0.10	<1	80
Priolube 2046	400	40	163	310	-36	0.10	1	85
Priolube 3986	47,000	2,000	278	325	6	0.01	<1	82
PAO 100	1,275	102	169	285	-27	<0.05	<1	0
PAO 1000	10,000	1,000	307	>265	-18	<0.10	<1	0





Who are we?

The Energy Technologies business in Cargill Bioindustrial creates, makes and sells specialty chemicals and additives for the global energy market. Working in close collaboration with our customers, we apply sustainable concepts and deep scientific expertise so that together we can efficiently power the world of tomorrow.

At our core, we are experts in synthetic ester and polyalkylene glycol chemistries, taking products from lab scale through to full manufacturing. Investing in the development of new chemistries allows us to support our customers in meeting new industry challenges.

For those who dare to imagine a brighter future, we establish long lasting relationships and create bespoke industry solutions through our integrated research & development and global manufacturing capabilities. Being both global and local, you have direct access to our network of technical experts. We look forward to talking to you.

Further information

Cargill Bioindustrial sales and distribution are coordinated through an extensive worldwide network of technical and commercial experts. For further information or guidance please contact us:

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Non-warranty

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