



High Performance Lubricants

At GEO, we provide a range of PAG base stocks and fully-formulated lubricants that deliver high levels of performance.

But what really sets us apart is the way we back our lubricants with the highest levels of service.

GEOlube[®]

 **G E O**[®]
SPECIALTY CHEMICALS

A division of CPS Performance Materials

When you work with us, you get a partner that cares about quality.

It's there in the way we listen to your needs and respond with innovative, tailored solutions. It's there in the way we take responsibility and respect the environment.

Most importantly, it's there whatever the size of your project.



Premium synthetic lubricants, with a personal level of service

Our synthetic lubricants range is complete and comprehensive – and the close relationship you only get with GEO makes navigating it simple.

Whatever your applications, whatever your requirements, and whatever the scale of your organisation, we'll help you get the lubricants and base stocks you need. It's the attention to detail, flexibility and can-do attitude it takes to deliver the ideal product, every time.



Our products

- Polyalkylene Glycols (PAGs)
- Base fluids
 - Water soluble
 - Water insoluble
 - Oil soluble (OSP)
- Fully formulated
 - Industrial gear lubricants
 - Refrigeration lubricants
 - Hydraulic fluids
 - Brake coating fluids
 - Compressor lubricants
 - Heat transfer fluids
 - Quenchants



An expert partner

Whatever you need, we're here to help.

From the intricacies of lubricant formulations to the development of bespoke basestocks, our expertise is your expertise.



A can-do attitude

We combine proven capability with a flexible approach.

From the smallest order to the biggest, our processes are designed to scale with your needs, your challenges, and your applications.



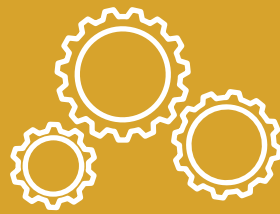
Always innovating

We know small changes can make a big difference in R&D and service alike.

So we're always innovating to deliver the highest-quality products and the most productive relationships.

Our approach





Lubricants

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Notes

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Product List

Base Fluids	Base Fluids	Industrial Gear Lubricants	Refrigeration Lubricants
GEOLube® 50 A 20	GEOLube® TB 120	GEOLube® B 65 X	GEOLube® MAC 46
GEOLube® 50 A 32	GEOLube® TB 150	GEOLube® FGL 150	GEOLube® MAC 100
GEOLube® 50 A 46	GEOLube® TB 195	GEOLube® FGL 220	GEOLube® MAC 150
GEOLube® 50 A 50	GEOLube® TB 356	GEOLube® FGL 320	GEOLube® RFL 46 X
GEOLube® 50 A 68	GEOLube® TB 375	GEOLube® FGL 460	GEOLube® RFL 68 EP
GEOLube® 50 A 75	GEOLube® B 10	GEOLube® FGL 680	GEOLube® RFL 100 X
GEOLube® 50 A 100	GEOLube® B 35	GEOLube® FGL 1000	GEOLube® ACL 43
GEOLube® 50 A 140	GEOLube® B 46	GEOLube® IL 150 SW	
GEOLube® 50 A 225	GEOLube® B 55	GEOLube® IL 220 SW	Compressor Lubricants
GEOLube® 50 A 320	GEOLube® B 68	GEOLube® IL 320 SW	GEOLube® CL 1400
GEOLube® 50 A 380	GEOLube® B 75	GEOLube® IL 460 SW	GEOLube® CL 1400 S
GEOLube® 43 A 1000	GEOLube® B 100	GEOLube® IL 680 SW	GEOLube® LPG 9
GEOLube® 50 A 1000	GEOLube® B 125	GEOLube® SL 99	GEOLube® LPG 100
GEOLube® 60 W 150	GEOLube® B 150	GEOLube® SL 150	GEOLube® LPG 150
GEOLube® 60 W 220	GEOLube® B 165	GEOLube® SL 220	
GEOLube® 60 W 320	GEOLube® B 225	GEOLube® SL 320	Quenchant
GEOLube® 60 W 460	GEOLube® B 335	GEOLube® SL 460	GEOLube® Quenchant A
GEOLube® 60 W 680	GEOLube® T 220	GEOLube® SL 680	
GEOLube® 60 W 1000	GEOLube® T 460	GEOLube® SL 1000	
GEOLube® 75 W 270	GEOLube® T 680		Brake Coating Fluids
GEOLube® 75 W 2050		Hydraulic Fluids - HFC	GEOLube® BCF 7
GEOLube® 75 W 18000	Oil Soluble PAGs	GEOLube® NF46 2180	GEOLube® BCF 11
GEOLube® 75 W 55000	GEOLube® NNL 1416	GEOLube® NF46 2181	
GEOLube® 75 T 4500	GEOLube® MCG 1222	GEOLube® NF46 4005	Heat Transfer Fluid
GEOLube® 75 T 66000	GEOLube® NNG 2032		GEOLube® HTF 14
	GEOLube® NNG 2046		
	GEOLube® NNG 2068		

- Recommended

EO = Ethylene Oxide
PO = Propylene Oxide

Applications

		Coatings & Adhesives	Compressor Lubricants	Thickeners	Hydraulic Fluids	Metal Working Fluids	Aluminium Processing	Industrial Gear Oils	Chain Lubricants	Quenching	Textile Lubricants
Base Fluids											
GEOLube® 50 A 20	EO / PO random co-polymer				●						●
GEOLube® 50 A 32	EO / PO random co-polymer				●						●
GEOLube® 50 A 46	EO / PO random co-polymer				●						●
GEOLube® 50 A 50	EO / PO random co-polymer		●		●	●	●	●			●
GEOLube® 50 A 68	EO / PO random co-polymer				●	●	●	●			●
GEOLube® 50 A 75	EO / PO random co-polymer		●		●	●	●	●			●
GEOLube® 50 A 100	EO / PO random co-polymer				●	●	●	●			●
GEOLube® 50 A 140	EO / PO random co-polymer		●		●	●	●	●	●		●
GEOLube® 50 A 225	EO / PO random co-polymer		●			●	●	●	●		●
GEOLube® 50 A 320	EO / PO random co-polymer					●	●	●	●		
GEOLube® 50 A 380	EO / PO random co-polymer					●	●	●	●		
GEOLube® 43 A 1000	EO / PO random co-polymer					●		●	●		
GEOLube® 50 A 1000	EO / PO random co-polymer					●		●	●		
GEOLube® 60 W 150	EO / PO random co-polymer				●	●	●	●	●		●
GEOLube® 60 W 220	EO / PO random co-polymer					●	●	●	●		●
GEOLube® 60 W 320	EO / PO random co-polymer					●	●	●	●		●
GEOLube® 60 W 460	EO / PO random co-polymer						●	●	●		●
GEOLube® 60 W 680	EO / PO random co-polymer						●	●	●		●
GEOLube® 60 W 1000	EO / PO random co-polymer						●	●	●		●
GEOLube® 75 W 270	EO / PO random co-polymer		●								
GEOLube® 75 W 2050	EO / PO random co-polymer	●									●
GEOLube® 75 W 18000	EO / PO random co-polymer	●		●	● ^{HFC}	●	●			●	
GEOLube® 75 W 55000	EO / PO random co-polymer			●	● ^{HFC}					●	
GEOLube® 75 T 4500	EO / PO random co-polymer			●	● ^{HFC}					●	
GEOLube® 75 T 66000	EO / PO random co-polymer			●	● ^{HFC}					●	

- Recommended

EO = Ethylene Oxide
PO = Propylene Oxide

Applications

Base Fluids		Chemical Intermediates	Coatings & Adhesives	Hydraulic Fluids	Metal Working Fluids	Aluminium Processing	Industrial Gear Oils	Quenching	Chain Lubricants	Compressor Lubricants	Refrigeration
		Non Lubricant		Industrial Lubricants							
GEOLube® TB 120	EO / PO random co-polymer in water			● ^{HFC}				●			
GEOLube® TB 150	EO / PO random co-polymer in water		●	● ^{HFC}				●			
GEOLube® TB 195	EO / PO random co-polymer in water			● ^{HFC}				●			
GEOLube® TB 356	EO / PO random co-polymer in water			● ^{HFC}				●			
GEOLube® TB 375	EO / PO random co-polymer in water			● ^{HFC}				●			
GEOLube® B 10	PO homo-polymer	●			●	●					
GEOLube® B 35	PO homo-polymer	●		●						●	●
GEOLube® B 46	PO homo-polymer	●		●						●	●
GEOLube® B 55	PO homo-polymer	●		●			●			●	●
GEOLube® B 68	PO homo-polymer	●		●			●			●	●
GEOLube® B 75	PO homo-polymer	●		●			●			●	●
GEOLube® B 100	PO homo-polymer	●		●			●			●	●
GEOLube® B 125	PO homo-polymer	●		●	●	●	●			●	●
GEOLube® B 150	PO homo-polymer	●		●	●	●	●			●	●
GEOLube® B 165	PO homo-polymer	●		●	●	●	●			●	●
GEOLube® B 225	PO homo-polymer	●			●	●	●				
GEOLube® B 335	PO homo-polymer	●	●		●	●	●		●		
GEOLube® T 220	PO homo-polymer	●					●		●		
GEOLube® T 460	PO homo-polymer	●					●		●		
GEOLube® T 680	PO homo-polymer	●					●		●		
Oil Soluble PAGs											
GEOLube® NNL 1416	Oil Soluble PAG	●			●						
GEOLube® MCG 1222	Oil Soluble PAG	●		●							
GEOLube® NNG 2032	Oil Soluble PAG	●		●							
GEOLube® NNG 2046	Oil Soluble PAG	●		●							
GEOLube® NNG 2068	Oil Soluble PAG	●		●							

Applications

		Chemical Intermediates	Coatings & Adhesives	Hydraulic Fluids	Metal Working Fluids	Aluminium Processing	Industrial Gear Oils	Quenching	Chain Lubricants	Compressor Lubricants	Refrigeration
Industrial Gear Lubricants		Non Lubricant	Industrial Lubricants								
GEOLube® B 65 X	Water insoluble gear lubricant						●		●		
GEOLube® FGL 150	Water soluble food grade gear lubricant						●				
GEOLube® FGL 220	Water soluble food grade gear lubricant						●				
GEOLube® FGL 320	Water soluble food grade gear lubricant						●				
GEOLube® FGL 460	Water soluble food grade gear lubricant						●				
GEOLube® FGL 680	Water soluble food grade gear lubricant						●		●		
GEOLube® FGL 1000	Water soluble food grade gear lubricant						●		●		
GEOLube® IL 150 SW	Water insoluble gear lubricant						●				
GEOLube® IL 220 SW	Water insoluble gear lubricant						●				
GEOLube® IL 320 SW	Water insoluble gear lubricant						●				
GEOLube® IL 460 SW	Water insoluble gear lubricant						●				
GEOLube® IL 680 SW	Water insoluble gear lubricant						●		●		
GEOLube® SL 99	Water soluble gear lubricant						●				
GEOLube® SL 150	Water soluble gear lubricant						●				
GEOLube® SL 220	Water soluble gear lubricant						●				
GEOLube® SL 320	Water soluble gear lubricant						●				
GEOLube® SL 460	Water soluble gear lubricant						●				
GEOLube® SL 680	Water soluble gear lubricant						●		●		
GEOLube® SL 1000	Water soluble gear lubricant						●		●		
Hydraulic Fluids - HFC											
GEOLube® NF46 2180	Fire resistant hydraulic fluid			●							
GEOLube® NF46 2181	Fire resistant hydraulic fluid			●							
GEOLube® NF46 4005	Fire resistant hydraulic fluid concentrate			●							

Applications

		Corrosion Protection	Heat Transfer Fluids	Aluminium Processing	Industrial Gear Oils	Quenching	Chain Lubricants	Compressor Lubricants	Refrigeration
Refrigeration Lubricants									
GEOLube® MAC 46	PO homo-polymer								●
GEOLube® MAC 100	PO homo-polymer								●
GEOLube® MAC 150	PO homo-polymer								●
GEOLube® RFL 46 X	Capped PO homo-polymer								●
GEOLube® RFL 68 EP	Capped PO homo-polymer								●
GEOLube® RFL 100 X	Capped PO homo-polymer								●
GEOLube® ACL 43	Capped PO homo-polymer base fluid								●
Compressor Lubricants									
GEOLube® CL 1400	Ethylene hyper-compressor lubricant							●	
GEOLube® CL 1400 S	Ethylene hyper-compressor lubricant							●	
GEOLube® LPG 9	Hydrocarbon gas compressor							●	
GEOLube® LPG 100	Hydrocarbon gas compressor							●	
GEOLube® LPG 150	Hydrocarbon gas compressor							●	
Quenchant									
GEOLube® Quenchant A	Quenchant					●			
Brake Coating Fluids									
GEOLube® BCF 7	Automotive brake coating fluid	●							
GEOLube® BCF 11	Automotive brake coating fluid	●							
Heat Transfer Fluids									
GEOLube® HTF 14	Heat transfer fluid		●						

Features & Benefits

Base Fluids	
<p>GEOLube® 50 A 20</p> <p>GEOLube® 50 A 32</p> <p>GEOLube® 50 A 46</p> <p>GEOLube® 50 A 50</p> <p>GEOLube® 50 A 68</p> <p>GEOLube® 50 A 75</p> <p>GEOLube® 50 A 100</p> <p>GEOLube® 50 A 140</p> <p>GEOLube® 50 A 225</p>	<p>High performance water soluble base stocks used in gear, bearing, calender and textile lubricants, compressor and metal working formulations.</p>
<p>GEOLube® 50 A 320</p> <p>GEOLube® 50 A 380</p>	<p>High performance water soluble base stocks used in gear, bearing, aluminium forming lubricants and metal working formulations.</p>
<p>GEOLube® 43 A 1000</p>	<p>High performance water soluble high VI base stock with high thermal and oxidative stability; shear stable.</p>
<p>GEOLube® 50 A 1000</p>	<p>Water soluble base stock with high thermal and oxidative stability; shear stable. Used in formulating gears and bearing lubricants</p>
<p>GEOLube® 60 W 150</p> <p>GEOLube® 60 W 220</p> <p>GEOLube® 60 W 320</p> <p>GEOLube® 60 W 460</p> <p>GEOLube® 60 W 680</p> <p>GEOLube® 60 W 1000</p>	<p>High performance water soluble, high VI base stock with high thermal, oxidative and shear stability. Used in formulating gear and bearing lubricants.</p>
<p>GEOLube® 75 W 270</p>	<p>High performance water soluble, high VI base stock with high thermal, oxidative and shear stability. Used in formulating compressor lubricants.</p>
<p>GEOLube® 75 W 2050</p>	<p>High performance water soluble with high thermal, oxidative and shear stability</p>
<p>GEOLube® 75 W 18000</p> <p>GEOLube® 75 W 55000</p> <p>GEOLube® 75 T 4500</p> <p>GEOLube® 75 T 66000</p>	<p>High performance water soluble, high VI base stocks with high thermal, oxidative and shear stability. Used in quenchants, metal working fluids and fire resistant hydraulic fluids (HFC type) formulations.</p>

For FDA Approvals - see further in the brochure

Features & Benefits

Base Fluids	
GEOLube® TB 120	60% active aqueous solution of GEOLube® 75 W 55000 for ease of handling
GEOLube® TB 150	70% active aqueous solution of GEOLube® 75 W 18000 for ease of handling
GEOLube® TB 195	60% active aqueous solution of GEOLube® 75 W 18000 for ease of handling
GEOLube® TB 356	44% active aqueous solution of GEOLube® 75 T 59000 for ease of handling
GEOLube® TB 375	25% active aqueous solution of GEOLube® 75 T 66000 for ease of handling
GEOLube® B 10	High performance water insoluble base stocks used in gear, calender, textile lubricants, compressor and aluminium forming / metal working formulations.
GEOLube® B 35	
GEOLube® B 46	
GEOLube® B 55	
GEOLube® B 68	
GEOLube® B 75	
GEOLube® B 100	
GEOLube® B 125	
GEOLube® B 150	
GEOLube® B 165	
GEOLube® B 225	High performance water insoluble high VI base stocks with high thermal and oxidative stability; shear stable. Used in formulating gear and bearing lubricants.
GEOLube® B 335	
GEOLube® T 220	
GEOLube® T 460	High performance oil soluble PAG base stocks miscible with mineral oils (I, II, III) and low viscosity polyalphaolefins. Used in formulating hydraulic fluids and automotive lubricant applications.
GEOLube® T 680	
GEOLube® NNL 1416	
GEOLube® MCG 1222	High performance oil soluble PAG base stocks miscible with mineral oils (I, II, III) and low viscosity polyalphaolefins. Used in formulating hydraulic fluids and automotive lubricant applications.
GEOLube® NNG 2032	
GEOLube® NNG 2046	
GEOLube® NNG 2068	

Features & Benefits

Industrial Gear Lubricants	
GEOLube® B 65 X	Water insoluble gear lubricants with high thermal oxidative stability.
GEOLube® FGL 150	High performance water gear lubricants suitable for various incidental food contact CFR 21 regulations, USDA H1 and NSF White Book listed. High VI, high thermal, oxidative and hydrolytic stability, high load capacity, very shear stable, excellent micro-pitting resistance, low pour point, low friction losses. Do not form sludges or varnishes. Kosher and Halal certified.
GEOLube® FGL 220	
GEOLube® FGL 320	
GEOLube® FGL 460	
GEOLube® FGL 680	
GEOLube® FGL 1000	
GEOLube® IL 150 SW	High performance water insoluble gear lubricants. Additive system designed to give excellent fresh and sea water corrosion resistance and low staining with aluminium. High VI, high thermal, oxidative and hydrolytic stability, high load capacity, very shear stable, good micro-pitting resistance, low pour point, low friction losses. Do not form sludges or varnishes. Demulsify water as at a lower phase to facilitate removal.
GEOLube® IL 220 SW	
GEOLube® IL 320 SW	
GEOLube® IL 460 SW	
GEOLube® IL 680 SW	
GEOLube® SL 99	High performance gear lubricant. Water soluble, high VI, high thermal, oxidative and hydrolytic stability, high load capacity, very shear stable, excellent micro-pitting resistance, low pour point, low friction losses. Does not form sludges or varnishes. Applications include snow mobile and textiles.
GEOLube® SL 150	
GEOLube® SL 220	High performance gear lubricant. Water soluble, high VI, high thermal, oxidative and hydrolytic stability, high load capacity, very shear stable, excellent micro-pitting resistance, low pour point, low friction losses. Does not form sludges or varnishes.
GEOLube® SL 320	High performance gear lubricant. Water soluble, high VI, high thermal, oxidative and hydrolytic stability, high load capacity, very shear stable, excellent micro-pitting resistance, low pour point, low friction losses. Does not form sludges or varnishes. Particularly good for worm gears.
GEOLube® SL 460	High performance gear lubricant. Water soluble, high VI, high thermal, oxidative and hydrolytic stability, high load capacity, very shear stable, excellent micro-pitting resistance, low pour point, low friction losses. Does not form sludges or varnishes.
GEOLube® SL 680	High performance gear lubricants. Water soluble, high VI, high thermal, oxidative and hydrolytic stability, high load capacity, very shear stable, excellent micro-pitting resistance, low pour point, low friction losses. Do not form sludges or varnishes. Used in high temperature applications such as cement kilns.
GEOLube® SL 1000	
Hydraulic Fluids - HFC	
GEOLube® NF46 2180	36% water containing HFC type fire resistant hydraulic fluid with good protection and anti-wear properties. Meets requirements of ISO 12922 and 7 th Luxembourg Standard.
GEOLube® NF46 2181	43% water containing HFC type fire resistant hydraulic fluid with good protection and anti-wear properties. Meets requirements of ISO 12922 and 7 th Luxembourg Standard.
GEOLube® NF46 4005	HFC hydraulic fluid concentrate. Allows customers to formulate NF46 2180 and NF46 2181 grades above.

See further in the brochure for FDA Approvals

Features & Benefits

Refrigeration Lubricants	
<p>GEOLube® MAC 46</p> <p>GEOLube® MAC 100</p> <p>GEOLube® MAC 150</p>	<p>Fully formulated ISO grade lubricants designed specifically for application with R-134a in mobile A/C systems or in A/C systems where the compressor requires a lubricant with viscosity of 46-150 cSt at 40°C.</p>
<p>GEOLube® RFL 46 X</p> <p>GEOLube® RFL 68 EP</p> <p>GEOLube® RFL 100 X</p>	<p>High performance fully formulated capped PAG lubricants designed specifically for application with R-134a and R-744 (CO₂) in A/C or refrigeration systems where the compressor requires a lubricant with viscosity of 46-100 cSt at 40°C.</p>
<p>GEOLube® ACL 43</p>	<p>High performance capped PAG base fluid designed specifically for application with R-1234yf in A/C or refrigeration systems.</p>
Compressor Lubricants	
<p>GEOLube® CL 1400</p>	<p>High performance lubricant used in ethylene compressors, particularly for LDPE production. Advantages are low solubility in ethylene in the lubricant, high load capacity, lower fluid losses and lower pre-polymer deposits compared to white oils. Burkhardt approved.</p>
<p>GEOLube® CL 1400 S</p>	<p>High performance lubricant used in ethylene compressors, particularly for LDPE production. Burkhardt approved.</p>
<p>GEOLube® LPG 9</p> <p>GEOLube® LPG 100</p> <p>GEOLube® LPG 150</p>	<p>Used in the compression of hydrocarbon gases (LPG, LNG, alkanes, olefins, butadiene, vinyl chloride and ammonia). Hydrocarbon gases have lower solubility in LPG 9 than in mineral oil. Viscosity and lubricity in operation are therefore maintained, resulting in lower loss of lubricant in the compressed gas. LPG 9 is particularly suitable for use in marine service on vessels carrying specialist liquefied gases such as propane and butane. Burkhardt approved.</p>
Brake Coating Fluids	
<p>GEOLube® BCF 7</p> <p>GEOLube® BCF 11</p>	<p>High performance corrosion protection fluids suitable for automotive braking system components.</p>
Heat Transfer Fluid	
<p>GEOLube® HTF 14</p>	<p>High thermal and oxidative stability; does not form residues or sludges, good compatibility with seals.</p>

* Cloud point measured as 1% aqueous solution

Chemical & Physical Properties

	Kinematic Viscosity		Viscosity Index	Density 20°C, kg/m ³	Cloud Point* °C	Flash Point °C	Pour Point °C
	40°C, cSt	100°C, cSt					
Base Fluids							
GEOlube® 50 A 20	19	4.6	165	1016	> 90	183	-48
GEOlube® 50 A 32	33	7.5	203	1030	72	218	-54
GEOlube® 50 A 46	46	10.2	213	1030	68	234	-51
GEOlube® 50 A 50	52	11	212	1033	66	220	-53
GEOlube® 50 A 68	70	15.1	229	1040	65	238	-48
GEOlube® 50 A 75	66	13.5	212	1035	65	232	-47
GEOlube® 50 A 100	105	21	228	1040	61	242	-45
GEOlube® 50 A 140	133	26	230	1051	57	220	-48
GEOlube® 50 A 225	217	41	239	1056	60	240	-42
GEOlube® 50 A 320	320	55.6	248	1060	60	240	-42
GEOlube® 50 A 380	387	70	254	1056	57	240	-42
GEOlube® 43 A 1000	1050	167	280	1060	48	240	-36
GEOlube® 50 A 1000	1000	163	281	1060	51	230	-39
GEOlube® 60 W 150	152	27	216	1061	87	210	-40
GEOlube® 60 W 220	220	39	240	1076	81	240	-38
GEOlube® 60 W 320	320	59	245	1076	77	244	-34
GEOlube® 60 W 460	455	77	251	1077	74	260	-40
GEOlube® 60 W 680	708	121	274	1065	71	252	-37
GEOlube® 60 W 1000	1000	161	279	1073	72	250	-26
GEOlube® 75 W 270	272	41	207	1096	> 90	250	-1
GEOlube® 75 W 2050	2025	300	335	1097	> 90	252	6
GEOlube® 75 W 18000	18000	2540	414	1095	> 90	245	6
GEOlube® 75 W 55000	55000	7900	430	1095	> 90	240	6
GEOlube® 75 T 4500	4780	715	360	1091	81	245	-6
GEOlube® 75 T 66000	64000	9100	506	1100	> 90	262	15

* Cloud point measured as 1% aqueous solution

Chemical & Physical Properties

	Kinematic Viscosity		Viscosity Index	Density 20°C, kg/m ³	Cloud Point* °C	Flash Point °C	Pour Point °C
	40°C, cSt	100°C, cSt					
Base Fluids							
GEOlube® TB 120	2600	-	-	1093	78	-	-31
GEOlube® TB 150	2850	-	-	1087	76	-	-27
GEOlube® TB 195	1040	-	-	1090	77	-	-33
GEOlube® TB 356	1955	-	-	1083	79	-	-36
GEOlube® TB 375	11650	-	-	1104	78	-	-21
GEOlube® B 10	10.6	2.5	-	950	28	168	-65
GEOlube® B 35	33	6.7	169	990	-	210	-60
GEOlube® B 46	46	8.6	184	986	-	226	-50
GEOlube® B 55	56	10.7	184	980	-	208	-57
GEOlube® B 68	68	12.3	181	992	-	211	-50
GEOlube® B 75	76	13.9	190	994	-	211	-52
GEOlube® B 100	100	19	212	994	-	228	-45
GEOlube® B 125	122	21	199	996	-	215	-48
GEOlube® B 165	160	27.5	211	991	-	230	-43
GEOlube® B 150	150	25	201	999	-	217	-40
GEOlube® B 225	224	37	216	1002	-	224	-37
GEOlube® B 335	330	52	223	1002	-	225	-32
GEOlube® T 220	220	30	184	1006	-	224	-30
GEOlube® T 460	460	62	226	1006	-	228	-28
GEOlube® T 680	647	99	246	1008	-	234	-32
Oil Soluble PAGs							
GEOlube® NNL 1416	16	3	-	920	-	215	-30
GEOlube® MCG 1222	22	5.4	197	937	-	217	-60
GEOlube® NNG 2032	33	5	-	924	-	222	-56
GEOlube® NNG 2046	46	8.5	166	945	-	232	-57
GEOlube® NNG 2068	66	12	175	950	-	232	-46

* Cloud point measured as 1% aqueous solution

Chemical & Physical Properties

	Kinematic Viscosity		Viscosity Index	Density 20°C, kg/m ³	Flash Point °C	Pour Point °C
	40°C, cSt	100°C, cSt				
Industrial Gear Lubricants						
GEOLube® B 65 X	59	11	184	980	266	-57
GEOLube® FGL 150	150	25	232	1052	> 200	-47
GEOLube® FGL 220	227	42	242	1053	> 200	-42
GEOLube® FGL 320	339	61	252	1054	> 200	-39
GEOLube® FGL 460	477	83	262	1065	> 200	-36
GEOLube® FGL 680	725	122	272	1067	> 200	-33
GEOLube® FGL 1000	1000	177	284	1074	> 200	-30
GEOLube® IL 150 SW	150	25	195	994	> 200	-30
GEOLube® IL 220 SW	237	32	179	1006	> 200	-30
GEOLube® IL 320 SW	325	45	198	1005	> 200	-30
GEOLube® IL 460 SW	433	64	223	1007	> 200	-28
GEOLube® IL 680 SW	660	86	219	1002	> 200	-30
GEOLube® SL 99	102	20	222	1047	> 200	-45
GEOLube® SL 150	150	25	232	1052	> 200	-47
GEOLube® SL 220	227	47	242	1053	> 200	-42
GEOLube® SL 320	339	70	252	1054	> 200	-39
GEOLube® SL 460	477	83	272	1056	> 200	-36
GEOLube® SL 680	680	122	281	1067	> 200	-33
GEOLube® SL 1000	1000	163	284	1074	> 200	-30
Hydraulic Fluids						
GEOLube® NF46 2180	46	-	-	1083	-	-40
GEOLube® NF46 2181	46	-	-	1076	-	-47
GEOLube® NF46 4005	1200	-	-	1080	-	-37

Chemical & Physical Properties

	Kinematic Viscosity		Viscosity Index	Density 20°C, kg/m ³	Flash Point °C	Pour Point °C
	40°C, cSt	100°C, cSt				
Refrigeration Lubricants						
GEOLube® MAC 46	42	8.3	178	983	242	-50
GEOLube® MAC 100	99	20	227	1046	262	-50
GEOLube® MAC 150	145	29	240	1051	260	-46
GEOLube® RFL 46 X	50	11	219	998	> 200	-49
GEOLube® RFL 68 EP	70	14	210	998	> 200	-46
GEOLube® RFL 100 X	107	20	212	999	> 200	-43
GEOLube® ACL 43	46	10	216	989	217	-55
Compressor Lubricants						
GEOLube® CL 1400	272	41	239	1086	259	-7
GEOLube® CL1400 S	272	41	239	1086	259	-7
GEOLube® LPG 9	185	35	237	1050	> 290	-40
GEOLube® LPG 100	106	20	218	1048	290	-45
GEOLube® LPG 150	142	27	228	1050	290	-48
Quenchant						
GEOLube® Quenchant A	450	-	-	1098	-	-30
Brake Coating Fluids						
GEOLube® BCF 7	65	17	280	989	240	-41
GEOLube® BCF 11	250	42	224	1002	230	-41
Heat Transfer Fluid						
GEOLube® HTF 14	55	11	200	1039	244	-37

Notes

A series of horizontal dotted lines for writing notes.

Registrations

Product Name	REACH*	TSCA	DSL	ENCS	KECL	IECSC	PICCS	AICS	NZIOC
	EU	USA	Canada	Japan	Korea	China	Philippines	Australia	New Zealand
Base Fluids									
GEOlube® 50 A 20	•	•	•	•	•	•	•	•	•
GEOlube® 50 A 32	•	•	•	•	•	•	•	•	•
GEOlube® 50 A 46	•	•	•	•	•	•	•	•	•
GEOlube® 50 A 50	•	•	•	•	•	•	•	•	•
GEOlube® 50 A 68	•	•	•	•	•	•	•	•	•
GEOlube® 50 A 75	•	•	•	•	•	•	•	•	•
GEOlube® 50 A 100	•	•	•	•	•	•	•	•	•
GEOlube® 50 A 140	•	•	•	•	•	•	•	•	•
GEOlube® 50 A 225	•	•	•	•	•	•	•	•	•
GEOlube® 50 A 320	•	•	•	•	•	•	•	•	•
GEOlube® 50 A 380	•	•	•	•	•	•	•	•	•
GEOlube® 43 A 1000	•	•	•	•	•	•	•	•	•
GEOlube® 50 A 1000	•	•	•	•	•	•	•	•	•
GEOlube® 60 W 150	•	•	•	•	•	•	•	•	•
GEOlube® 60 W 220	•	•	•	•	•	•	•	•	•
GEOlube® 60 W 320	•	•	•	•	•	•	•	•	•
GEOlube® 60 W 460	•	•	•	•	•	•	•	•	•
GEOlube® 60 W 680	•	•	•	•	•	•	•	•	•
GEOlube® 60 W 1000	•	•	•	•	•	•	•	•	•
GEOlube® 75 W 270	•	•	•	•	•	•	•	•	•
GEOlube® 75 W 2050	•	•	•	•	•	•	•	•	•
GEOlube® 75 W 18000	•	•	•	•	•	•	•	•	•
GEOlube® 75 W 55000	•	•	•	•	•	•	•	•	•
GEOlube® 75 T 4500	•	•	•	•	•	•	•	•	•
GEOlube® 75 T 66000	•	•	•	•	•	•	•	•	•

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Registrations

Product Name	REACH*	TSCA	DSL	ENCS	KECL	IECSC	PICCS	AICS	NZIOC
	EU	USA	Canada	Japan	Korea	China	Philippines	Australia	New Zealand
Base Fluids									
GEOlube® TB 120	•	•	•	•	•	•	•	•	•
GEOlube® TB 150	•	•	•	•	•	•	•	•	•
GEOlube® TB 195	•	•	•	•	•	•	•	•	•
GEOlube® TB 356	•	•	•	•	•	•	•	•	•
GEOlube® TB 375	•	•	•	•	•	•	•	•	•
GEOlube® B 10	•	•	•	•	•	•	•	•	•
GEOlube® B 35	•	•	•	•	•	•	•	•	•
GEOlube® B 46	•	•	•	•	•	•	•	•	•
GEOlube® B 55	•	•	•	•	•	•	•	•	•
GEOlube® B 68	•	•	•	•	•	•	•	•	•
GEOlube® B 75	•	•	•	•	•	•	•	•	•
GEOlube® B 100	•	•	•	•	•	•	•	•	•
GEOlube® B 125	•	•	•	•	•	•	•	•	•
GEOlube® B 150	•	•	•	•	•	•	•	•	•
GEOlube® B 165	•	•	•	•	•	•	•	•	•
GEOlube® B 225	•	•	•	•	•	•	•	•	•
GEOlube® B 335	•	•	•	•	•	•	•	•	•
GEOlube® T 220	•	•	•	•	•	•	•	•	•
GEOlube® T 460	•	•	•	•	•	•	•	•	•
GEOlube® T 680	•	•	•	•	•	•	•	•	•
Oil Soluble PAGs									
GEOlube® NNL 1416	•				•	•			
GEOlube® MCG 1222	•					•			
GEOlube® NNG 2032	•								
GEOlube® NNG 2046	•	•				•			
GEOlube® NNG 2068	•	•				•			

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Registrations

Product Name	REACH* EU	TSCA USA	DSL Canada	ENCS Japan	KECL Korea	IECSC China	PICCS Philippines	AICS Australia	NZIOC New Zealand
Industrial Gear Lubricants									
GEOlube® B 65 X	•	•	•	•	•	•	•	•	•
GEOlube® FGL 150	•	•	•	•	•	•	•	•	•
GEOlube® FGL 220	•	•	•	•	•	•	•	•	•
GEOlube® FGL 320	•	•	•	•	•	•	•	•	•
GEOlube® FGL 460	•	•	•	•	•	•	•	•	•
GEOlube® FGL 680	•	•	•	•	•	•	•	•	•
GEOlube® FGL 1000	•	•	•	•	•	•	•	•	•
GEOlube® IL 150 SW	•	•	•	•	•	•	•	•	•
GEOlube® IL 220 SW	•	•	•	•	•	•	•	•	•
GEOlube® IL 320 SW	•	•	•	•	•	•	•	•	•
GEOlube® IL 460 SW	•	•	•	•	•	•	•	•	•
GEOlube® IL 680 SW	•	•	•	•	•	•	•	•	•
GEOlube® SL 99	•	•	•	•	•	•	•	•	•
GEOlube® SL 150	•	•	•	•	•	•	•	•	•
GEOlube® SL 220	•	•	•	•	•	•	•	•	•
GEOlube® SL 320	•	•	•	•	•	•	•	•	•
GEOlube® SL 460	•	•	•	•	•	•	•	•	•
GEOlube® SL 680	•	•	•	•	•	•	•	•	•
GEOlube® SL 1000	•	•	•	•	•	•	•	•	•
Hydraulic Fluids									
GEOlube® NF46 2180	•	•	•	•	•	•	•	•	•
GEOlube® NF46 2181	•	•	•	•	•	•	•	•	•
GEOlube® NF46 4005	•	•	•	•	•	•	•	•	•

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Registrations

Product Name	REACH*	TSCA	DSL	ENCS	KECL	IECSC	PICCS	AICS	NZIOC
	EU	USA	Canada	Japan	Korea	China	Philippines	Australia	New Zealand
Refrigeration Lubricants									
GEOlube® MAC 46	•	•	•	•	•	•	•	•	•
GEOlube® MAC 100	•	•	•	•	•	•	•	•	•
GEOlube® MAC 150	•	•	•	•	•	•	•	•	•
GEOlube® RFL 46 X	•	•			•	•			
GEOlube® RFL 68 EP	•	•			•	•			
GEOlube® RFL 100 X	•	•			•	•			
GEOlube® ACL 43	•	•	•	•	•	•	•	•	
Compressor Lubricants									
GEOlube® CL 1400	•	•	•	•	•	•	•	•	•
GEOlube® CL1400 S	•	•	•	•	•	•	•	•	•
GEOlube® LPG 9	•	•	•	•	•	•	•	•	•
GEOlube® LPG 100	•	•	•	•	•	•	•	•	•
GEOlube® LPG 150	•	•	•	•	•	•	•	•	•
Quenchant									
GEOlube® Quenchant A	•	•	•	•	•	•	•	•	•
Brake Coating Fluids									
GEOlube® BCF 7	•	•	•	•	•	•	•	•	•
GEOlube® BCF 11	•	•	•	•	•	•	•	•	•
Heat Transfer Fluid									
GEOlube® HTF 14	•	•	•	•	•	•	•	•	•

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Classification, Labelling & Packaging Regulations

EC No. 1272/2008

Product Name	GHS Pictogram	Hazard Statements	Precautionary Statements
Base Fluids			
GEOlube® 50 A 20	None	None	None
GEOlube® 50 A 32	None	None	None
GEOlube® 50 A 46	None	None	None
GEOlube® 50 A 50	None	None	None
GEOlube® 50 A 68	None	None	None
GEOlube® 50 A 75	None	None	None
GEOlube® 50 A 100	None	None	None
GEOlube® 50 A 140	None	None	None
GEOlube® 50 A 225	GHS07	H332	P271, P260, P312, P304+P340
GEOlube® 50 A 320	GHS07	H332	P271, P260, P312, P304+P340
GEOlube® 50 A 380	GHS07	H332	P271, P233, P260, P311, P304+P340
GEOlube® 43 A 1000	GHS06	H331	P271, P260, P311, P304+P340, P403+P233
GEOlube® 50 A 1000	GHS06	H330	P271, P260, P284, P310, P304+P340, P403+P233
GEOlube® 60 W 150	None	None	None
GEOlube® 60 W 220	None	None	None
GEOlube® 60 W 320	None	None	None
GEOlube® 60 W 460	None	None	None
GEOlube® 60 W 680	None	None	None
GEOlube® 60 W 1000	None	None	None
GEOlube® 75 W 270	None	None	None
GEOlube® 75 W 2050	None	None	None
GEOlube® 75 W 18000	None	None	None
GEOlube® 75 W 55000	None	None	None
GEOlube® 75 T 4500	None	None	None
GEOlube® 75 T 66000	None	None	None

Classification, Labelling & Packaging Regulations

EC No. 1272/2008

Product Name	GHS Pictogram	Hazard Statements	Precautionary Statements
Base Fluids			
GEOlube® TB 120	None	None	None
GEOlube® TB 150	None	None	None
GEOlube® TB 195	None	None	None
GEOlube® TB 356	None	None	None
GEOlube® TB 375	None	None	None
GEOlube® B 10	None	None	None
GEOlube® B 35	None	None	None
GEOlube® B 46	None	None	None
GEOlube® B 55	None	None	None
GEOlube® B 68	None	None	None
GEOlube® B 75	None	None	None
GEOlube® B 100	None	None	None
GEOlube® B 125	None	None	None
GEOlube® B 150	None	None	None
GEOlube® B 165	None	None	None
GEOlube® B 225	None	None	None
GEOlube® B 335	None	None	None
GEOlube® T 220	None	None	None
GEOlube® T 460	None	None	None
GEOlube® T 680	None	None	None
Oil Soluble PAGs			
GEOlube® NNL 1416	None	H412	P273, P501
GEOlube® MCG 1222	None	H412	P273, P501
GEOlube® NNG 2032	None	H412	P273, P501
GEOlube® NNG 2046	None	H412	P273, P501
GEOlube® NNG 2068	None	H412	P273, P501

Classification, Labelling & Packaging Regulations

EC No. 1272/2008

Product Name	GHS Pictogram	Hazard Statements	Precautionary Statements
Industrial Gear Lubricants			
GEOlube® B 65 X	GHS07	H317, H412	P262, P280, P302+P352, P273
GEOlube® FGL 150	None	None	None
GEOlube® FGL 220	None	None	None
GEOlube® FGL 320	None	None	None
GEOlube® FGL 460	None	None	None
GEOlube® FGL 680	None	None	None
GEOlube® FGL 1000	None	None	None
GEOlube® IL 150 SW	None	None	None
GEOlube® IL 220 SW	None	None	None
GEOlube® IL 320 SW	None	None	None
GEOlube® IL 460 SW	None	None	None
GEOlube® IL 680 SW	None	None	None
GEOlube® SL 99	None	None	None
GEOlube® SL 150	None	None	None
GEOlube® SL 220	None	None	None
GEOlube® SL 320	None	None	None
GEOlube® SL 460	None	None	None
GEOlube® SL 680	None	None	None
GEOlube® SL 1000	None	None	None
Hydraulic Fluids			
GEOlube® NF46 2180	GHS07, GHS08	H302, H315, H319, H373	P280, P260, P264, P270, P311, P301+P330
GEOlube® NF46 2181	GHS07, GHS08	H302, H315, H319, H373	P280, P260, P264, P270, P311, P301+P330
GEOlube® NF46 4005	GHS07, GHS08	H302, H315, H319, H373	P280, P260, P264, P270, P311, P301+P330

Classification, Labelling & Packaging Regulations

EC No. 1272/2008

Product Name	GHS Pictogram	Hazard Statements	Precautionary Statements
Refrigeration Lubricants			
GEOlube® MAC 46	None	None	None
GEOlube® MAC 100	None	None	None
GEOlube® MAC 150	None	None	None
GEOlube® RFL 46 X	GHS07	H302	P301+P312
GEOlube® RFL 68 EP	GHS07	H302	P301+P312
GEOlube® RFL 100 X	GHS07	H302	P301+P312
GEOlube® ACL 43	None	None	None
Compressor Lubricants			
GEOlube® CL 1400	None	None	None
GEOlube® CL1400 S	None	H412	P273, P501
GEOlube® LPG 9	None	H412	P273, P501
GEOlube® LPG 100	None	H412	P273, P501
GEOlube® LPG 150	None	H412	P273, P501
Quenchant			
GEOlube® Quenchant A	None	None	None
Brake Coating Fluids			
GEOlube® BCF 7	None	H360F	P201, P202, P262, P280, P303+P361+P353, P308+P313, P405, P501
GEOlube® BCF 11	None	H360F	P201, P202, P262, P280, P303+P361+P353, P308+P313, P405, P501
Heat Transfer Fluid			
GEOlube® HTF 14	GHS07	H317, H412	P262, P280, P302+P352, P273

Classification and Labelling Legend

Reference	Description
HAZARD PHRASES	
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H330	Fatal if inhaled
H331	Toxic if inhaled
H332	Harmful if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects
PRECAUTIONARY STATEMENTS	
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P264	Wash thoroughly with plenty of water and soap after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well ventilated area
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P284	Wear respiratory protection
P310	Immediately call a poison center or doctor/physician
P311	Call a poison center or doctor/physician
P312	Call a poison center or doctor/physician if you feel unwell
P501	Dispose of contents/container in accordance with local, regional, national and international regulations as applicable
P301+330	IF SWALLOWED: rinse mouth
P302+352	IF ON SKIN: wash with plenty of soap and water
P304+340	IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing
P403+233	Store in a well ventilated place. Keep container tightly closed

NSF White Book Listings Non Food Compounds

Product Name	Category Code	Registration Number	Intended Use
Base Fluids			
GEOlube® B 125	H1, HX1	152994	General incidental food contact
GEOlube® B 225	H1, HX1	152995	General incidental food contact
GEOlube® B 335	H1, HX1	152996	General incidental food contact
GEOlube® 50 A 140	HX1	158599	General incidental food contact
Industrial Gear Lubricants			
GEOlube® FGL 150	H1	151582	General incidental food contact
GEOlube® FGL 220	H1	151583	General incidental food contact
GEOlube® FGL 320	H1	151584	General incidental food contact
GEOlube® FGL 460	H1	151585	General incidental food contact
GEOlube® FGL 680	H1	151586	General incidental food contact
GEOlube® FGL 1000	H1	151587	General incidental food contact
Compressor Lubricants			
GEOlube® CL 1400	H1	152997	General incidental food contact
GEOlube® CL 1400 S	H1	152998	General incidental food contact

EU 10/2011 Regulation Compliance

Product Name	EU Regulation No. 10/2011 on plastic materials and articles intended to come into contact with food
Base Fluids	
GEOlube® 50 A 20	Manufactured from listed components
GEOlube® 50 A 32	Manufactured from listed components
GEOlube® 50 A 46	Manufactured from listed components
GEOlube® 50 A 50	Manufactured from listed components
GEOlube® 50 A 68	Manufactured from listed components
GEOlube® 50 A 75	Manufactured from listed components
GEOlube® 50 A 100	Manufactured from listed components
GEOlube® 50 A 140	Manufactured from listed components
GEOlube® 50 A 225	Manufactured from listed components
GEOlube® 50 A 320	Manufactured from listed components
GEOlube® 50 A 380	Manufactured from listed components
GEOlube® 43 A 1000	Manufactured from listed components
GEOlube® 50 A 1000	Manufactured from listed components
GEOlube® 60 W 150	Listed
GEOlube® 60 W 220	Listed
GEOlube® 60 W 320	Listed
GEOlube® 60 W 460	Listed
GEOlube® 60 W 680	Listed
GEOlube® 60 W 1000	Listed
GEOlube® 75 W 270	Listed
GEOlube® 75 W 2050	Listed
GEOlube® 75 W 18000	Listed
GEOlube® 75 W 55000	Listed
GEOlube® 75 T 4500	Manufactured from listed components
GEOlube® 75 T 66000	Manufactured from listed components

EU 10/2011 Regulation Compliance

Product Name	EU Regulation No. 10/2011 on plastic materials and articles intended to come into contact with food
Base Fluids	
GEOlube® TB 120	Listed
GEOlube® TB 150	Listed
GEOlube® TB 195	Listed
GEOlube® TB 356	Manufactured from listed components
GEOlube® TB 375	Manufactured from listed components
GEOlube® B 10	Manufactured from listed components
GEOlube® B 35	Manufactured from listed components
GEOlube® B 46	Manufactured from listed components
GEOlube® B 55	Manufactured from listed components
GEOlube® B 68	Manufactured from listed components
GEOlube® B 75	Manufactured from listed components
GEOlube® B 100	Manufactured from listed components
GEOlube® B 125	Manufactured from listed components
GEOlube® B 150	Manufactured from listed components
GEOlube® B 165	Manufactured from listed components
GEOlube® B 225	Manufactured from listed components
GEOlube® B 335	Manufactured from listed components
GEOlube® T 220	Manufactured from listed components
GEOlube® T 460	Manufactured from listed components
GEOlube® T 680	Manufactured from listed components
GEOlube® NNL 1416	Manufactured from listed components

BfR* Recommendation on Food Contact Materials

* Bundesinstitut für Risikobewertung

Product Name	BfR XIV - Polymer dispersions	BfR XXXVI - Paper & board for food contact
Base Fluids		
GEOLube® 60 W 150	Listed	Listed
GEOLube® 60 W 220	Listed	Listed
GEOLube® 60 W 320	Listed	Listed
GEOLube® 60 W 460	Listed	Listed
GEOLube® 60 W 680	Listed	Listed
GEOLube® 60 W 1000	Listed	Listed
GEOLube® 75 W 270	Listed	Listed
GEOLube® 75 W 2050	Listed	Listed
GEOLube® 75 W 18000	Listed	Listed
GEOLube® 75 W 55000	Listed	Listed
GEOLube® TB 120	Listed	Listed
GEOLube® TB 150	Listed	Listed
GEOLube® TB 195	Listed	Listed

Kosher / Halal Certifications

Base Fluids	Kosher	Halal
GEOLube® 50 A 20	●	●
GEOLube® 50 A 32	●	●
GEOLube® 50 A 46	●	●
GEOLube® 50 A 50	●	●
GEOLube® 50 A 68	●	●
GEOLube® 50 A 75	●	●
GEOLube® 50 A 100	●	●
GEOLube® 50 A 140	●	●
GEOLube® 50 A 225	●	●
GEOLube® 50 A 320	●	●
GEOLube® 50 A 380	●	●
GEOLube® 43 A 1000	●	●
GEOLube® 50 A 1000	●	●
GEOLube® 60 W 150	●	●
GEOLube® 60 W 220	●	●
GEOLube® 60 W 320	●	●
GEOLube® 60 W 460	●	●
GEOLube® 60 W 680	●	●
GEOLube® 60 W 1000	●	●
GEOLube® 75 W 270	●	●
GEOLube® 75 W 2050	●	●
GEOLube® 75 W 18000	●	●
GEOLube® 75 W 55000	●	●
GEOLube® 75 T 4500	●	●
GEOLube® 75 T 66000	●	●

Base Fluids	Kosher	Halal
GEOLube® TB 120		●
GEOLube® TB 150		●
GEOLube® TB 195		●
GEOLube® TB 356		
GEOLube® TB 375		●
GEOLube® B 10	●	●
GEOLube® B 35	●	●
GEOLube® B 46	●	●
GEOLube® B 55	●	●
GEOLube® B 68	●	●
GEOLube® B 75	●	●
GEOLube® B 100	●	●
GEOLube® B 125	●	●
GEOLube® B 150	●	●
GEOLube® B 165	●	●
GEOLube® B 225	●	●
GEOLube® B 335	●	●
GEOLube® T 220	●	●
GEOLube® T 460	●	●
GEOLube® T 680	●	●

Oil Soluble PAGs

GEOLube®>NNL 1416	●	●
GEOLube® MCG 1222		
GEOLube® NNG 2032	●	●
GEOLube® NNG 2046	●	●
GEOLube® NNG 2068	●	●

Kosher / Halal Certifications

Base Fluids	Kosher	Halal
GEOLube® B 65 X		
GEOLube® FGL 150	●	●
GEOLube® FGL 220	●	●
GEOLube® FGL 320	●	●
GEOLube® FGL 460	●	●
GEOLube® FGL 680	●	●
GEOLube® FGL 1000	●	●
GEOLube® IL 150 SW		
GEOLube® IL 220 SW		
GEOLube® IL 320 SW		
GEOLube® IL 460 SW		
GEOLube® IL 680 SW		
GEOLube® SL 99		
GEOLube® SL 150		
GEOLube® SL 220		
GEOLube® SL 320		
GEOLube® SL 460		
GEOLube® SL 680		
GEOLube® SL 1000		

Hydraulic Fluids	Kosher	Halal
GEOLube® NF46 2180		●
GEOLube® NF46 2181		●
GEOLube® NF46 4005		●

Base Fluids	Kosher	Halal
GEOLube® MAC 46		●
GEOLube® MAC 100		●
GEOLube® MAC 150		●
GEOLube® RFL 46 X		●
GEOLube® RFL 68 EP		●
GEOLube® RFL 100 X		●
GEOLube® ACL 43		

Compressor Lubricants	Kosher	Halal
GEOLube® CL 1400	●	●
GEOLube® CL 1400 S	●	●
GEOLube® LPG 9		
GEOLube® LPG 100		
GEOLube® LPG 150		

Quenchant	Kosher	Halal
GEOLube® Quenchant A		●

Brake Coating Fluids	Kosher	Halal
GEOLube® BCF 7		
GEOLube® BCF 11		

Heat Transfer Fluid	Kosher	Halal
GEOLube® HTF 14		●

Lubricant Substance Classification (LuSC) List

Product Name	ALL no grease	ALL only grease	PLL no grease	PLL only grease	TLL no grease	TLL only grease
GEOLube® B35	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® B46	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® B55	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® B68	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® B75	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® B100	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® B125	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® B150	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® B225	5%	15%	20%	15%	5%	15%
GEOLube® B335	5%	15%	20%	15%	5%	15%
GEOLube® 50 A 20	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® 50 A 32	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® 50 A 46	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® 50 A 50	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® 50 A 68	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® 50 A 75	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® 50 A 100	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® 50 A 140	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® 60 W 150	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® 60 W 220	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® 60 W 320	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® 60 W 460	Not limited by bio-degradation and aquatic toxicity*					
GEOLube® 60 W 680	5%	15%	20%	15%	5%	15%
GEOLube® 60 W 1000	5%	15%	20%	15%	5%	15%

* Basefluid is readily biodegradable, non-bioaccumulative and non-toxic to aquatic species

Application categories and maximum component treat levels allowed for European Eco Label (EEL)

ALL:	Accidental Loss Lubrication	greases, hydraulic fluids, metalworking fluids, gear oils for closed gears
PLL:	Partial Loss Lubrication	greases, gear oils for open gears, stern tube oils, two-stroke oils, oils for temporary corrosion protection
TLL:	Total Loss Lubrication	greases, chainsaw oils, wire rope lubricants, concrete release agents

Notes

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Notes

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Disclaimer:

All information and data, including the formulations and procedures discussed herein, are believed to be correct. However, this should not be accepted as a guarantee of their accuracy, and confirming tests should be run in your laboratory or plant. No statement should be construed as a recommendation for any use which would violate any patent rights. Sales of all products are pursuant to terms and conditions included in GEO Specialty Chemicals sales documents.

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Safety Data Sheets.

Users of these products are urged to review and use this information.

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Talk to us about your
challenges and see how we
can overcome them together.

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