

# LUKOIL CARBOFLEX OG 000-1500 HD, OG 00-2000 HD, OG 0-4000 HD

Specialty Complex Aluminium Greases with Solid Lubricants for Gear Drives

## DESCRIPTION

Greases of the LUKOIL® CARBOFLEX OG HD series are specialty high-quality greases for draglines and shovel buckets based on the specialty high-viscosity mineral oil and complex aluminium soap with high content of solid lubricants. Satisfy P&H 520 ed.00, 3-97 requirements.

Greases of the LUKOIL® CARBOFLEX OG HD series can be pumped through the centralized lubrication systems and operate within a wide temperature range from -45°C (LUKOIL® CARBOFLEX OG 000-1500 HD) up to +140°C (LUKOIL® CARBOFLEX OG 0-4000 HD), and withstand extreme loads. The greases are formulated to provide reliable lubrication, good thermal stability, and good structure stability during storage and operation. The following NLGI classes are available: 000 – for operation in winter, 00 – for transition periods, 0 – for operation in summer.



<p><b><u>ADVANTAGES:</u></b></p> <ul style="list-style-type: none"> <li>• Very high load carrying capacity</li> <li>• Excellent adhesion</li> <li>• Excellent water resistance</li> <li>• Excellent low-temperature features (NLGI 000)</li> <li>• Excellent pumping ability</li> <li>• Satisfy P&amp;H 520 ed.00, 3-97 requirements.</li> </ul>	<p><b><u>COMPOSITION:</u></b></p> <ul style="list-style-type: none"> <li>• High-viscosity mineral oil</li> <li>• Complex aluminium soap</li> <li>• Additive package: anti-oxidation, anti-corrosion, and adhesive additives</li> <li>• Solid lubricants</li> </ul>
<p><b><u>APPLICABLE IN UNITS:</u></b></p> <ul style="list-style-type: none"> <li>• Open gear drives</li> <li>• Guideways</li> <li>• Chains</li> <li>• Wire cables</li> <li>• Splined joints</li> </ul>	<p><b><u>APPLICATIONS:</u></b></p> <ul style="list-style-type: none"> <li>• Open gear drives of the kilns and shafts</li> <li>• Shovel bucket handles and bushings in the bucket excavators and draglines</li> <li>• Centralized lubrication systems of the quarry and mining machinery</li> </ul>

LUKOIL CARBOFLEX OG 000-1500 HD; OG 00-2000 HD; OG 0-4000 HD. Edition 07/19 replaces edition 02/19

This product is manufactured according to STO 65561488-057-2016

## LUKOIL® CARBOFLEX OG 000-1500 HD, OG 00-2000 HD, OG 0-4000 HD

### TYPICAL PROPERTIES

Standard*	Property	Unit	OG 000-1500 HD	OG 00-2000 HD	OG 0-4000 HD
DIN 51502	Marking according to DIN 51502		OGF000C-45	OGF00C-20	OGF0N-10
	Color, appearance		Black		
	Service temperature range	°C	-45 to +10	-20 to +20	-10 to +140
DIN 51818	NLGI consistency class		liquid	00	0
ISO 2137	Worked penetration (mixed, 60 double strokes)	mm/10		400-430	355-385
DIN 51562	Base oil viscosity at 40°C	mm <sup>2</sup> /s	1520	2000	4000
DIN 51562	Base oil viscosity at 100°C	mm <sup>2</sup> /c		120	240
ASTM D92	Flash point (open cup), not less	°C	160	200	200
ISO 2176	Drop point	°C		>180	>200
DIN 51805	Flow pressure (at temperature°C), not more	mBar	1400 (-45°C)	1400 (-20°C)	1400 (-10°C)
ASTM D2596	Weld load (4-ball machine test) at 25°C	N	6174	6174	6174
ASTM D2266	Wear scar (4-ball machine test)	mm	0,6	0,6	0,6
DIN 51802	Corrosion degree (rolling bearings, distilled water)		0-0	0-0	0-0
ASTM D 4048	Corrosion degree (copper strip)		1a	1a	1a

\*DIN: Deutsche Industrie Norm

ISO: International Standardization Organization

ASTM: American Society for Testing and Materials.

### HOW TO USE

These greases can be applied manually with brush or spatula, as well as through centralized lubrication system.

### USABLE LIFE AND STORAGE

When stored in the original unopened containers in a dry place, this product has a shelf life of at least 36 months from the date of production.

### HANDLING PRECAUTIONS

This product doesn't contain any toxic ingredients. During storage, transportation and application of this product, the safety rules for handling mineral lubricating materials and the environment protection regulations must be observed.

For further information on how to use LUKOIL® products, please refer to the product MSDS.

### TECHNICAL SUPPORT

For correct selection of the proper lubricating materials to meet your needs, for more detailed information on the products, as well as if you have any other questions, we recommend you to contact our technical support service specialists by e-mail: [grease.support@lukoil.com](mailto:grease.support@lukoil.com)

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Product technical properties are typical and can vary in strong limits.

Due to research and development of science and technology technical properties of product indicated in this Technical Data Sheet can be changed without notification.