

Foodoil SH / SG

Art. 699 – 710

Description: Synthetic heavy-duty lubricating oils for machines in the food, fodder and pharmaceutical industries and their suppliers.

Application areas: Oil fillings and lubricating points on production, transfer, filling and packaging machines, e.g. hydraulics, gear-boxes, circular lubrication, blowers, air compressors, pneum. service units, conveyor and drive chains, central lubricating systems, etc.

Product characteristics

- Lubricants to requirement USDA-H1 / DIN V 10517 / Reg. NSF.
Meets Regulation
FDA no 21 CFR 178.3570.
Odour and taste neutral

Benefits

- high safety is guaranteed in respect of contamination of production goods. Facilitates compliance with the food ordinance (Hazard Analysis and Critical Control Point HACCP). Supports the obligation for care and quality assurance QA to ISO 9000.
- highest possible operational reliability, even under unfavourable conditions.
- long service life of an oil filling. Reduces formation of aging products and deposits, even at elevated operating temperatures. The viscosity remains within the permitted limits throughout the whole service life.
- retrofit or conversion of the machine unnecessary.
- simplified handling on conversion (reoilng).
- reduces the formation of deposits, resistant to hydrolysis
- the lubricants conform to the current health cognitions in the food, fodder and pharmaceutical industries.
- fulfills the wish for the greatest possible standardization of types.

- Meets the requirements of well-known machine manufacturers as well as the DIN and ISO standards.
The special formulation assures very high wear protection, high load-bearing capacity and effective corrosion protection

- Excellent aging and oxidation resistance and shear stability

- Neutral to usual seals and lacquers

- Miscible and compatible with residual amounts of conventional, mineral oil based lubricants

- Free of vegetable and animal esters

- Products are free of mineral oil
Free of genetically engineered organisms (GEO)

- Revised, well-rounded product range of heavy-duty lubricants.
Designed for a high degree of universality

Use:

- The Foodoil lubricants should not be mixed with mineral oils or other liquids.
- The products should also not be mixed with each other.
- Meaning of USDA-H1 / DIN V 10517: lubricants whose contact with food/fodder/pharmaceutical products cannot be excluded.

Environmental and safety aspects:

- Used lubricant which can no longer be employed must be disposed of according to the stipulations of the Decree for Handling Hazardous Wastes (OMSW).
- Free of toxicity class
- FOPH T No. 611500
- Attention: water endangering
- ADR/SDR: not hazardous goods
- Waste Code OMSW: 1481

Chief applications:

	Foodoil SH 15 Art. 699	Foodoil SH 22 Art. 700	Foodoil SH 32 Art. 701	Foodoil SH 46 Art. 702	Foodoil SH 68 Art. 703	Foodoil SH 100 Art. 704	Foodoil SG 150 Art. 705	Foodoil SG 220 Art. 706	Foodoil SG 320 Art. 707	Foodoil SG 460 Art. 708	Foodoil SG 680 Art. 709	Foodoil SG 1000 Art. 710
Hydraulics			X	X	X							
Pneum. service unit	X	X	X	X								
Friction gear	X	X	X	X								
Denture clutch			X	X	X							
Fluid turbo coupling			X	X								
Circular lubrication						X	X	X	X			
Central lubrication in general							X	X	X	X		
Conveyor and drive chains						X	X	X	X	X	X	X
Oil ring bearing						X	X	X	X			
Oil lubrication points in general							X	X	X			
Planetary gears						X	X	X	X			
Spur gears									X	X		
Worm gears									X	X	X	X
Bevel gears									X	X	X	
Gears which are thermally or mechanically heavily loaded										X	X	X
Centrifuge gears							X	X	X			
Rotary piston blowers									X	X	X	
Vacuum pumps							X	X	X	X		
Screw-type compressor				X	X							
Piston compressors						X	X	X				

The data in this table are merely general application guidelines. The lubricants must be determined according to the requirements and in observance of the factory regulations with respect to alloy type and viscosity. A higher alloyage of the lubricant can have a favourable effect on the wear behaviour and the service life of the oil.

Physico-chemical data:

Measurement	Standard	Unit	Foodoil SH 15 Art. 699	Foodoil SH 22 Art. 700	Foodoil SH 32 Art. 701	Foodoil SH 46 Art. 702	Foodoil SH 68 Art. 703	Foodoil SH 100 Art. 704	Foodoil SG 150 Art. 705	Foodoil SG 220 Art. 706	Foodoil SG 320 Art. 707	Foodoil SG 460 Art. 708	Foodoil SG 680 Art. 709	Foodoil SG 1000 Art. 710
Meets the requirement	–	–	FDA/ USDA-H1	FDA/ USDA-H1	FDA/ USDA-H1	FDA/ USDA-H1	FDA/ USDA-H1	FDA/ USDA-H1	FDA/ USDA-H1	FDA/ USDA-H1	FDA/ USDA-H1	FDA/ USDA-H1	FDA/ USDA-H1	FDA/ USDA-H1
Alloy type	DIN 51524/2 DIN 51524/3 DIN 51517/3 DIN 51506	–	HLP HC HVLP HC	HLP HC	HLP HC HVLP HC	HLP HC HVLP HC CLP HC VCL/HC	HLP HC HVLP HC CLP HC VCL/HC	HLP HC HVLP HC CLP HC VCL/HC	CLP HC VCL/HC	CLP HC VCL/HC	CLP HC VCL/HC	CLP HC VCL/HC	CLP HC	CLP HC
Colour, appearance	–	–	colourless, clear	colourless, clear	colourless, clear	colourless, clear	colourless, clear	yellowish, clear	yellowish, clear	yellowish, clear	yellowish, clear	yellowish, clear	yellowish, clear	yellowish, clear
Viscosity (40°C)	DIN ISO 3448	ISO-VG	VG 15	VG 22	VG 32	VG 46	VG 68	VG 100	VG 150	VG 220	VG 320	VG 460	VG 680	VG 1000
Viscosity (100°C)	DIN 51562	mm ² /s	3.6	4.7	6.2	8.0	11.1	14.7	19.9	28.2	35.5	49.4	62.7	83.8
Viscosity index VI	DIN ISO 2509	–	140	131	161	150	150	155	155	163	159	166	162	166
Density 20°C	DIN 51757	g/ml	0.816	0.822	0.852	0.828	0.833	0.835	0.838	0.841	0.843	0.846	0.850	0.852
Pour point	DIN ISO 3016	°C	< -54	< -51	< -54	< -45	-45	-39	-39	-33	-30	-24	-24	-18
Flash point	DIN ISO 2592	°C	192	226	245	246	252	250	247	258	255	260	264	275

Note: requirements on the oils to VCL 220, VCL 320, VCL 460 are not specified in DIN 51506. The properties of these products are met in analogy to DIN 51506.



Container size: Drum: 200 l

Canister: 5 l • 25 l

The data given in this data sheet are based on properties and application possibilities as known to us. Blaser Swissslube AG will assume no liability for damage resulting from improper use of the products. No general legal liability can be derived from these data.

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