

# Foodoil SH / SG

Art. 699 – 710

**Description:** Foodoil SH/SG is a synthetic heavy-duty lubricating oil for machines in the food, fodder and pharmaceutical industries and their suppliers.

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

## Product characteristics

## Benefits

- Lubricant complying with FDA regulation No. 21 CFR 178.3570, NSF H1 registered, DIN EN ISO 21469 certified, odourless and tasteless → high security against product contamination. Facilitates compliance with hygiene regulations as per Foodstuffs and utility articles ordinance (LGV). Supports due diligence obligation and quality assurance QS as per ISO 9000.
- 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 → highest possible operational reliability, even under unfavourable conditions.
- Excellent aging and oxidation resistance and shear stability → 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.
- Neutral to usual seals and lacquers → retrofit or conversion of the machine unnecessary.
- Miscible and compatible with residues of conventional mineral oil based lubricants → simple oil changeover in existing systems. However, food law requirements as per FDA Regulation 21 CFR 178.3570 / NSF H1/DIN EN ISO 21469 are only met with unmixed fluid.
- Free of vegetable and animal esters → reduces the formation of deposits, resistant to hydrolysis.
- Free of solvents and mineral oils. Free of genetically modified organisms (GMO) → this product meets the current oil technology health-related findings for the food, animal feed and pharmaceutical industries and their suppliers.
- Revised, well-rounded product range of heavy-duty lubricants. Designed for a high degree of universality → fulfills the wish for the greatest possible standardization of types.

**Use:**

- Foodoil lubricants should not be mixed with mineral oils or other liquids
- Products should also not be mixed with each other
- Significance of NSF H1: Lubrificants that are approved for an incidental contact with food, feed and pharmaceutical products

## Environmental and safety aspects:

- ADR/RID: no dangerous goods
- Precautions: Do not allow product to reach ground water, water course or sewage system. Harmful to aquatic organisms. Slightly water endangering (WGK 1)
- Water hazard class: 13 02 06
- EC-waste code: identical to EC waste code (as per VeVA of 01.01.06)
- CH-waste code: stated in the safety data sheet
- Classification and labelling:

**Chief applications:** see overleaf

## 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	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 additivation and viscosity. A higher additivation of the lubricant can have a favourable effect on the wear behaviour and the service life of the oil.

## Physical-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	–	–	NSF H1	NSF H1	NSF H1	NSF H1	NSF H1	NSF H1	NSF H1	NSF H1	NSF H1	NSF H1	NSF H1	NSF 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 <sup>2</sup> /s	3.6	4.7	5.91	8.0	10.8	14.9	20.3	27.3	35.5	48.5	62.7	83.8
Viscosity index VI	DIN ISO 2509	–	120	131	131	150	150	155	155	160	156	165	162	166
Density 20°C	DIN 51757	g/ml	0.816	0.822	0.827	0.828	0.833	0.835	0.838	0.841	0.843	0.846	0.850	0.853
Pourpoint	DIN ISO 3016	°C	< -54	< -51	< -45	< -48	-45	-45	-39	-33	-30	-27	-21	-21
Flashpoint	DIN ISO 2592	°C	202	226	240	244	246	248	256	258	260	264	262	272

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 sizes: Drum: 208 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. 39.504 E (0420)