

# Evolit SH/SG

Art. 05203-01 – 05211-01

**Description:** Synthetic high-performance industrial gear oil based on polyalphaolefines, which is primarily used for thermally highly stressed industrial gear units and is designed for use at low and high extreme temperatures.

**Range of application:** Oil bath and circulating lubrication in helical, bevel and worm gears, rolling and plain bearings, highly loaded sliding surfaces.

## Product properties

- Complies with the requirements of well-known machine manufacturers as well as the DIN and ISO standards. The special formulation guarantees very high wear protection, high load carrying capacity and effective corrosion protection
- Very favourable viscosity- and temperature behaviour, pronounced cold flow behaviour
- High ageing and oxidation resistance as well as shear stability
- Good elastomer and paint compatibility. Miscible and compatible with conventional, mineral oil-based lubricants

## Benefits

- Highest possible operational safety even under unfavourable operating conditions, reduction of maintenance costs and energy-saving compared to mineral oil products thanks to very favourable friction behaviour
- High operational reliability at high and low extreme temperatures
- Long service life of the oil filling; longer oil change intervals. Low formation of aging products and deposits, even at high operating temperatures. The lubricating film and thus optimum wear protection remains reliable over the entire service life
- No retrofitting and conversion of the machine necessary when changing over to Evolit SH/SG. No danger of product mix-ups with mineral oils

**Application:** Evolit SH/SG is miscible and compatible with mineral oil-based lubricants. However, in order to make full use of the favourable properties, mixing should be avoided.

## Safety and environmental aspects:

- ADR/RID: not classified as hazardous according to transport regulations.
- Precautionary measure: Do not allow product to reach ground water, water course or sewage system. Harmful to aquatic organisms.
- Water endangering: slightly hazardous to water (WGK 1)
- EC-waste code: 13 02 06
- CH-waste code: identically with EC-waste code (according to VeVA waste regulations from 01.01.06)
- Classification and labeling: stated in the safety data sheet

**Physical-chemical data:** see overleaf

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## Physical-chemical data:

Measurement	Standard	Evolit SH 46 Art. 5203	Evolit SH 68 Art. 5204	Evolit SH 100 Art. 5205	Evolit SG 150 Art. 5206	Evolit SG 220 Art. 5207	Evolit SG 320 Art. 5208	Evolit SG 460 Art. 5209	Evolit SG 680 Art. 5210	Evolit SG 1000 Art. 5211
Alloy type	DIN 51524/2 DIN 51524/3 DIN 51517/3 DIN 51506	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	yellowish, clear	yellowish, clear	yellowish, clear	yellowish, clear	yellowish, clear	yellowish, clear	yellowish, clear
Viscosity 40°C	DIN 51560	46 mm <sup>2</sup> /s	68 mm <sup>2</sup> /s	100 mm <sup>2</sup> /s	150 mm <sup>2</sup> /s	220 mm <sup>2</sup> /s	320 mm <sup>2</sup> /s	460 mm <sup>2</sup> /s	680 mm <sup>2</sup> /s	1000 mm <sup>2</sup> /s
Viscosity 100°C	DIN 51562	8 mm <sup>2</sup> /s	11 mm <sup>2</sup> /s	15 mm <sup>2</sup> /s	20 mm <sup>2</sup> /s	28 mm <sup>2</sup> /s	36 mm <sup>2</sup> /s	47 mm <sup>2</sup> /s	63 mm <sup>2</sup> /s	84 mm <sup>2</sup> /s
Viscosity index VI	DIN ISO 2509	150	150	155	155	163	155	166	162	166
ISO VG	DIN ISO 3448	46	68	100	150	220	320	460	680	1000
Density 20°C	DIN 51757	0.828 g/ml	0.833 g/ml	0.835 g/ml	0.838 g/ml	0.841 g/ml	0.843 g/ml	0.846 g/ml	0.85 g/ml	0.852 g/ml
Pourpoint	DIN ISO 3016	< -45°C	-45°C	-39°C	-39°C	-48°C	-30°C	-27°C	-24°C	-18°C
Flashpoint	DIN ISO 2592	244°C	246°C	250°C	246°C	2545°C	250°C	260°C	264°C	275°C

**Notation:** The requirements of the oils according to VCL 220, VCL 320 and VCL 460 are not specified according to DIN 51506. The properties of these products are based on DIN 51506.



Container sizes:

Drum: 208 l • 60 l

Canister: 10 l

*The data given on this sheet are based on properties and application possibilities as known to us. No general legal liability can be derived from these data. Blaser Swisslube AG will assume no liability for damage resulting from the improper use of the products. 30.557 E (0420)*

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