

# The BYK-9730 series

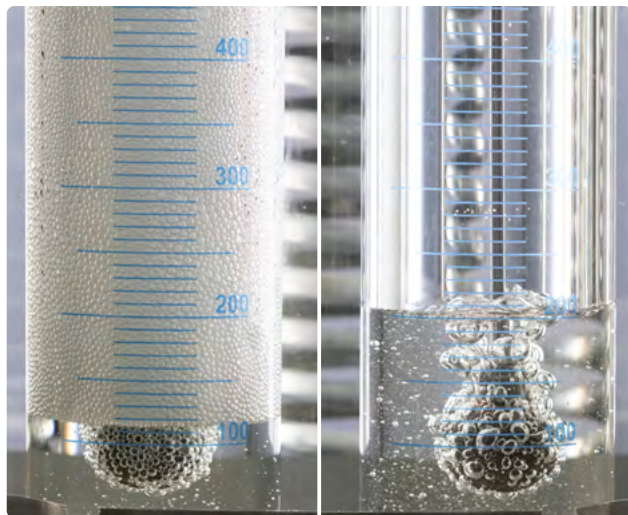
## Defoamers for oil-based industrial lubricants

Modern lubricants are highly complex formulations. Liquid lubricants contain numerous additives, the interaction of which often leads to undesirable foaming – especially during stirring, pumping, or movement. Foam not only impairs lubrication, but also cooling and can significantly reduce performance.

### Foam test according to ASTM D892

Without defoamer

With 0.05 % BYK-9731



**Test system:** Polyalphaolefin (PAO), viscosity: 70 mm<sup>2</sup>/s (at 40 °C)

To specifically address these challenges, BYK offers the BYK-9730 series, a highly effective range of defoamers developed especially for industrial lubricants. Even low dosages – around 0.05 % – are highly effective. BYK-9730 combines the advantages of classic silicone defoamers with those of silicone-free polymer defoamers. The product works reliably in all common base oils without impairing their transparency. For silicone-free applications, the polymer defoamer BYK-9731 offers an effective alternative in polyalphaolefins (PAO) and ester oils. The solely silicone-based defoamer BYK-9732 complements the portfolio as a cost-effective alternative for systems where complete transparency is not a requirement. The series is rounded off by BYK-9733, a silicone-free defoamer based on bio-based raw materials, particularly suitable for use in API Class II mineral oils.

The BYK-9730 series provides lubricant manufacturers with a high-performance, versatile product range that specifically solves foaming problems – for stable processes and the highest product quality.

## Benefits

### Of the BYK-9730 series:

- Excellent defoaming in oil-based lubricants
- Good storage stability – no precipitation, no separation
- Particle-free – no filter clogging

### Additional benefits:

- Of BYK-9730: versatile applications in all common base oils, without negative impact on transparency
- Of BYK-9731: silicone-free, without negative impact on transparency, specifically for polyalphaolefins and ester oils
- Of BYK-9732: cost-effective silicone defoamer for use in all common base oils
- Of BYK-9733: solvent- and silicone-free, without negative impact on transparency, specifically for mineral oils (especially API II)

## Differentiation of the defoamers

		BYK-9730	BYK-9731	BYK-9732	BYK-9733
<b>Product data</b>	Based on	Silicone and polymer	Polymer	Silicone	Vegetable oils and polymer
<b>Suitable systems</b>	Mineral oils API I-III	●		●	●
	Naphthenic oils API V	●		●	
	Polyalphaolefins API IV	●	●	●	
	Ester oils API V	●	●	●	
<b>Application</b>	Recommended dosage	0.05–0.1 %	0.05–0.1 %	0.05–0.1 %	0.05–0.1 %
<b>Benefits</b>	Excellent defoaming in oil-based lubricants	●	●	●	●
	Good storage stability – no precipitation, no separation	●	●	●	●
	Particle-free – no filter clogging	●	●	●	●
	No effect on transparency	●	●		●
	Versatile applications	●			
	Silicone-free		●		●
	Cost-effective alternative			●	



### Technical data

#### BYK-9730:

- Density (20 °C): 0.77 g/cm<sup>3</sup>
- Solvents: Aromatic-free hydrocarbon

#### BYK-9731:

- Density (20 °C): 0.76 g/cm<sup>3</sup>
- Solvents: Aromatic-free hydrocarbon

#### BYK-9732:

- Density (20 °C): 0.76 g/cm<sup>3</sup>
- Solvents: Aromatic-free hydrocarbon

#### BYK-9733:

- Density (20 °C): 0.89 g/cm<sup>3</sup>
- Solvent-free



Your local  
contact

**BYK-Chemie GmbH**  
Abelstraße 45  
46483 Wesel  
Germany  
Tel +49 281 670-0

info@byk.com  
www.byk.com

ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK-AQUAGEL®, BYK-DYNWET®, BYK-MAX®, BYK-SILCLEAN®, BYKANOL®, BYKCARE®, BYKETOL®, BYKJET®, BYKONITE®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, NANOBYK®, OPTIBENT®, OPTIGEL®, PURABYK®, RECYCLOBYK®, RHEOBYK®, SCONA®, SILBYK®, TIXOGEL® and VISCOBYK® are registered trademarks of the BYK group.

The information contained herein is based on our current knowledge and experience. No warranties, guarantees and/or assurances of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. Any information about suitability, use or application of the products is non-binding and does not constitute a commitment regarding the products' properties, use or application. Contractual terms and conditions, in particular agreed product specifications, always take precedence. We recommend that you test our products in preliminary trials to determine their suitability for your intended purpose prior to use. We reserve the right to make any changes and to update the information herein without notice.

Download  
our app:  
byk.com/app

