

## TIXOGEL-IIN

Fully activated rheology additive based on organophilic phyllosilicate for oil and solvent phases in personal care applications.

### Product data

#### Composition

Gel of organophilic phyllosilicate (INCI: Isononyl Isononanoate, Quaternium-90 Bentonite, Propylene Carbonate)

Vegan

#### Typical properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Non-volatile matter (24 h, 105 °C):	11.0–14.0 %
Viscosity (25 °C, 0.5 rpm):	1,000,000–4,000,000 mPa·s
Total viable count:	max. 100 cfu/g
Color:	green
Delivery form:	gel

#### Storage and transportation

TIXOGEL-IIN should be transported and stored dry in unopened original packaging at temperatures between 0 °C and 30 °C.

### Applications



#### Personal care

##### Special features and benefits

TIXOGEL-IIN is an easy-to-use, fully activated mastergel consisting of quaternium-90 bentonite dispersed in isononyl isononanoate. Quaternium-90 bentonite is an organically modified bentonite (organophilic phyllosilicate) of non-animal origin for use in cosmetic products.

TIXOGEL-IIN provides thermostable thixotropic flow behavior, superior spreadability, and excellent pigment suspension in cosmetic formulations. It also helps reduce the tackiness of formulations.

**Recommended use**

Creams and lotions	
Sunscreen products	
Liquid makeup	
Antiperspirants/deos	
Skin cleansing products	
Hair styling products	

 especially recommended     recommended

**Recommended levels**

3–10 % additive (as supplied) based on the total formulation, when used in emulsions.

5–20 % additive (as supplied) based on the total formulation, when used in wax-based systems.

The final amount of TIXOGEL-IIN used depends on the desired thickening and stabilization in the formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

**Incorporation and processing instructions**

TIXOGEL-IIN can be easily incorporated at almost any stage of the manufacturing process with medium shear. For an optimal dispersion, the additive is mixed and homogenized with a portion of the most compatible organic component or solvent of the formulation before other ingredients are added.

**Special note**

TIXOGEL-IIN is a fully activated mastergel. It does not require further activation.



**Your local  
contact**

**BYK-Chemie GmbH**  
Abelstraße 45  
46483 Wesel  
Germany  
Tel +49 281 670-0  
Fax +49 281 65735

**info@byk.com**  
**www.byk.com**

ADD-MAX®, ADD-VANCE®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK-AQUAGEL®, BYK®-DYNWET®, BYK-MAX®, BYK®-SILCLEAN®, BYKANOL®, BYKCARE®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKONITE®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, POLYAD®, PRIEX®, PURABYK®, PURE THIX®, RECYCLOBLEND®, RECYCLOBYK®, RECYCLOSSORB®, RECYCLOSTAB®, RHEOBYK®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL® and VISCOBYK® are registered trademarks of the BYK group.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties 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. We reserve the right to make any changes according to technological progress or further developments.

This issue replaces all previous versions.