

# BYKJET-9142

Solvent-free wetting and dispersing additive to improve the dispersing and particle size distribution of inorganic pigments in low-polarity ceramic inkjet inks. The additive reduces the viscosity of the inkjet inks.

## Product data

### Composition

Polymeric carboxylic acid ester

### Typical properties

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

Density (20 °C):	1.01 g/cm <sup>3</sup>
Active substance:	100 %
Flash point:	186 °C
Acid value:	99 mg KOH/g
Delivery form:	liquid

### Storage and transportation

Product shelf life in unopened original packaging: 60 months

At temperatures below 20 °C the product may become solid. In this case, warm to 30-60 °C and stir.

Moisture sensitive. Store dry. To be stored and transported at a temperature below 50 °C.

## Applications

### Inkjet inks

#### Special features and benefits

BYKJET-9142 is a wetting and dispersing additive with a highly deflocculating effect that uses steric hindrance to prevent the reflocculation of pigments. It leads to a pronounced reduction in viscosity and Newtonian flow characteristics, which can increase the pigment content of the ink. Good long-term stability with respect to settling behavior and syneresis is also achieved. The product has a strong impact on particle size and leads to an even particle size distribution in pigment dispersions, thereby significantly shortening the filtration time. BYKJET-9142 can be used in low-polarity ceramic inkjet inks based on hydrocarbons and fatty acid esters. It can be used either as the only dispersing additive or in combination with other products. Good results with BYKJET-9142 are also obtained at low dosage.

#### Recommended use

Ceramic inkjet inks	<input checked="" type="checkbox"/>
---------------------	-------------------------------------

especially recommended    recommended

**Recommended levels**

5-30 % additive (as supplied) based on inorganic pigments.

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

**Incorporation and processing instructions**

Wetting and dispersing additives should generally be added to the millbase. This is the only way in which they can be fully effective. Pre-mix the solvent components of the millbase and then gradually pour in the additive while stirring. Add the pigments only after the additive has been thoroughly dispersed.



Your local  
contact

**BYK-Chemie GmbH**

Abelstraße 45  
46483 Wesel  
Germany  
Tel +49 281 670-0  
[info@byk.com](mailto:info@byk.com)  
[www.byk.com](http://www.byk.com)



Download  
our app:  
[byk.com/app](http://byk.com/app)

ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK-AQUAGEL®, BYK-DYNWET®, BYK-MAX®, BYK-SILCLEAN®, BYKANOL®, BYKCARE®, BYKETOL®, BYKJET®, BYKONITE®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, NANOBYPK®, 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.