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
Polymer with pigment affinic groups

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

Acid value:	95 mg KOH/g
Active substance:	100 %
Density (20 °C):	1.01 g/ml
Flash point:	186 °C

Food Contact Legal Status
For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Storage and Transportation
The product may solidify below 20 °C. Warm to 30-60 °C and mix well. Moisture sensitive.

Applications

Ceramic 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.

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Data Sheet
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Recommended Use

Ceramic inkjet inks	■

■ especially recommended

Recommended Levels

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

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

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.

Additive Guide

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