BYKJET-9175

Next-generation wetting and dispersing additive for perfect stabilization of organic pigments and disperse dyes in aqueous inkjet inks.

Product data

Composition
Aqueous solution of a salted methacrylate block copolymer

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

Density (20 °C):	1.08 g/ml
Non-volatile matter (20 min, 150 °C):	40 %
Solvents:	water
Acid value:	27 mg KOH/g
Amine value:	22 mg KOH/g

Storage and transportation
Storage temperature max. 50 °C

Applications

Inkjet inks

Special features and benefits
BYKJET-9175 deflocculates pigments and stabilizes them by means of steric hindrance. This state-of-the-art additive has been developed for aqueous systems and based on a new controlled polymerization technology. BYKJET-9175 is part of an innovative generation of high-performance dispersing additives with outstanding properties. As the product is produced using controlled polymerization technology, it is characterized by a particularly narrow molecular weight distribution. This narrow molecular weight distribution leads to excellent stabilization of pigment dispersions and inkjet inks. The strongly deflocculating effect of BYKJET-9175 results in considerable viscosity reduction and Newtonian flow behavior in pigment dispersions and final inks. The long-term storage stability of the pigment concentrate and the inkjet ink is improved. In addition, using BYKJET-9175 leads to a considerable reduction in particle sizes in comparison to conventional first-generation wetting and dispersing agents. This often achieves shorter dispersing times and reduced energy usage, while increasing the color strength, transparency, hiding power, and gloss. The product has been specially optimized for good resolubility to prevent latency problems when printing final inkjet inks.

Recommended use

BYKJET-9175 is particularly recommended for resin-free grinds.

Organic pigments	■
Carbon blacks	■
Disperse dyes	■
Inorganic pigments	□

■ especially recommended □ recommended

Recommended levels

Disperse dyes:	20–120 %
Inorganic pigments:	10–50 %
Organic pigments:	20–120 %
Carbon blacks:	30–200 %

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. Only in this way can they be fully effective. Grinding should only take place in water (without binders, amines, or cosolvents). Mix BYKJET-9175 with water and only add the pigments once the additive has been homogeneously distributed.

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

info@byk.com
www.byk.com