

BYKJET-9177

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 modified polyether

Typical properties

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

Density (20 °C):	1.10 g/ml
Non-volatile matter (20 min, 150 °C):	52 %
Solvents:	water
Amine value:	5 mg KOH/g

Storage and transportation

Storage temperature max. 40 °C

Applications

Inkjet inks

Special features and benefits

BYKJET-9177 deflocculates pigments and stabilizes them by means of steric hindrance. Pigment dispersions and inkjet inks with low viscosity and Newtonian flow behavior are achieved. This increases color strength and improves optical density, transparency, hiding power, and gloss. The long-term storage stability of the pigment concentrate and the finished ink is increased.

Thanks to its special chemical structure and specific adhesive group, BYKJET-9177 interacts particularly well with carbon black pigments and organic pigments that are difficult to stabilize, for example P.O.64 and P.Y.185. It can also be used to stabilize other organic pigments and disperse dyes. The product has been specially optimized for good resolubility to prevent latency problems when printing final inkjet inks.

Recommended use

BYKJET-9177 is particularly recommended for resin-free grinds.

Organic pigments	<input checked="" type="checkbox"/>
Carbon blacks	<input checked="" type="checkbox"/>
Disperse dyes	<input type="checkbox"/>
Inorganic pigments	<input type="checkbox"/>

☒ especially recommended ☐ recommended

Recommended levels

Disperse dyes:	20–120 %
Inorganic pigments:	8–40 %
Organic pigments:	20–120 %
Carbon black:	20–150 %

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-9177 with water and only add the pigments once the additive has been homogeneously distributed.



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