

BYKJET-9171

Solvent-free wetting and dispersing additive for aqueous inkjet inks.

Product Data

Composition

Solution of an acrylic block copolymer with aminic pigment-affinic groups

Typical Properties

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

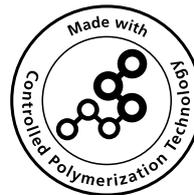
Amine value:	28 mg KOH/g
Density (20 °C):	1.05 g/ml
Non-volatile matter (10 min., 150 °C):	40 %
Solvents:	Water

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.

Special Note

Above 70 °C, the product can become turbid and highly viscous. If necessary, allow to cool and then stir.



Applications

Inkjet Inks

Special Features and Benefits

BYKJET-9171 deflocculates pigments and stabilizes them by means of steric hindrance. The product, which is produced using controlled polymerization technology, is characterized by a very narrow molecular weight distribution. This narrow molecular weight distribution leads to an excellent stabilization of pigment dispersions. The strongly deflocculating effect of BYKJET-9171 results in increased gloss, optical density, transparency and/or hiding power, and a considerably reduced millbase viscosity. The long-term storage stability of the pigment concentrate and the finished ink is improved.

Recommended Use

BYKJET-9171 is particularly suitable for stabilizing organic pigments and disperse dyes. It greatly reduces the viscosity of the millbase, which enables a higher pigment content in pigment concentrates. It is particularly recommended for binder-free grinding.

Recommended Levels

Amount of additive (as supplied) based upon pigment:

Disperse dyes:	20-120 %
Inorganic pigments:	10-50 %
Titanium dioxides:	2-10 %
Organic pigments:	20-120 %
Carbon blacks:	30-200 %

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. Only in this way can they be fully effective.

Grinding should only take place in water (without binders, amines, or co-solvents). Mix the additive with water and only add the pigments once the additive has been homogeneously distributed.



Additive Guide



BYK-Chemie GmbH
P.O. Box 10 02 45
46462 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com

ACTAL®, ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAC®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PAPERBYK®, PERMONT®, PRIEX®, PURE THIX®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL®, VISCOBYK® and Y 25® 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 – Printed in Germany