

AQUACER 1063

Polyethylene primary dispersion to improve the anti-caking properties of hot-melt adhesives and to increase adhesion in dispersion adhesives for the packaging sector.

Product data

Composition

Polyethylene primary dispersion with anionic and non-ionic emulsifying agents

Typical properties

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

pH value (20 °C):	9
Non-volatile matter (60 min, 125 °C):	40 %
Carrier:	water
Viscosity (20 °C):	< 250 mPa·s

Storage and transportation

Temperature sensitive. To be stored and transported between 5 °C and 35 °C. Mix well before use.

Applications

Hot-melt adhesives

Special features and benefits

AQUACER 1063 is used as an anti-blocking additive in the manufacture of hot-melt adhesives (hot-melts) during underwater pelletizing to obtain a free-flowing, non-sticky granulate. It is added directly into the cooling water and is therefore easy to handle and dust-free.

Recommended levels

0.5–5 % additive (as supplied) based on the quantity of water in the cooling system.

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

Incorporation and processing instructions

The additive is added directly into the circulation water. If foam builds up in the circulation water, we recommend using a defoamer, for example BYK-1679 or BYK-016 at a dose of 0.05–0.3 %.

Packaging adhesives

Special features and benefits

AQUACER 1063 improves adhesion in aqueous dispersion adhesives for the packaging sector. When bonding foil-laminated surfaces with paper or cardboard, AQUACER 1063 improves the adhesion of the laminated side. Adhesion is particularly improved on foils made from oriented polypropylene (OPP), biaxially oriented PP (BOPP), and improved to some extent on polyethylene (PE). The product exhibits good adhesion even at low temperatures. AQUACER 1063 shows no discoloration when bonding systems are stored at higher temperatures.

Recommended levels

10–50 % additive (as supplied) based on the total formulation.

AQUACER 1063 represents part of the binder in this application which explains the higher levels used. The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

The additive should be added after the binder has been added. Mix well before use.



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This issue replaces all previous versions.