

# AQUACER 1040

Primary polyethylene dispersion for formulating release agents for metal die casting.

## Product Data

### Composition

Modified primary polyethylene dispersion with anionic and non-ionic emulsifiers

### Typical Properties

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

Density (20 °C):	0.99 g/ml
Non-volatile matter (1 h, 125 °C):	38 %
Carrier:	Water
Melting point (wax content):	95 °C
Viscosity (25 °C):	< 50 mPa·s
pH value (20 °C):	9

### Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit [www.byk.com](http://www.byk.com) for further information.

### Storage and Transportation

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

## Applications

### Release Agents for Metal Die Casting

#### Special Features and Benefits

AQUACER 1040 is recommended for formulating aqueous mold release agents which are used in aluminum die casting. The product brings about a good wetting of the mold at high temperatures, very good film forming and outstanding adhesion to the mold surface. The mold is protected from damage and the finished molded components have an excellent surface quality. AQUACER 1040 also remains stable in hard water.

#### Recommended Levels

10-70 % additive (as supplied) based on the total formulation.

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

#### Incorporation and Processing Instructions

AQUACER 1040 is preferably diluted with water, but can also be mixed directly with all the components of the aqueous mold release agent. The additive can also be used directly as an aqueous mold release agent.

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Data Sheet  
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Additive Guide



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