



HPL Additives Limited

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MIKROFINE[®] ADC-3838

MIKROFINE[®] ADC-3838 is a chemical blowing agent for polythenic and styrenic polymers with processing temperature around 210-230 °C.

1 PRODUCT INFORMATION

Main constituent	:	Azodicarbonamide CAS Number [123-77-3] Mol. Formula C ₂ H ₄ N ₄ O ₂ Mol.wt. 116
Physical form	:	Light yellow free flowing powder
Odour	:	Odourless
Solubility	:	Insoluble in water, benzene and most other solvents.
Health, safety & handling information	:	Relevant information can be found in sheet No.HPLA/MSDS/M/CBA/29

2 SPECIFIED PROPERTIES

Decomposition temperature (°C) (open capillary tube method)	:	193 ± 2
pH (5% aqueous suspension at 25 °C)	:	7.0 ± 0.5

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SPECIAL FEATURES

MIKROFINE[®] ADC-3838 has been specially designed for the injection molding and expansion of foamed thermoplastics. The decomposition residue of MIKROFINE[®] ADC-3838 does not cause plate-out.

Unlike most endothermic blowing agents MIKROFINE[®] ADC-3838 does not generate steam on decomposition. This can be advantageous in situations where steam causes mold corrosion except in cases where copper/beryllium tooling is used.

MIKROFINE[®] ADC-3838 does not cause mold corrosion.

MIKROFINE[®] ADC-3838 is self-nucleating and produces foams with fine uniform cell structure and smooth surfaces.

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APPLICATIONS

MIKROFINE[®] ADC-3838 is recommended for polythenic and styrenic polymers with processing temperature around 210-230 °C. Typical applications include wood replacement for electrical equipment housing and automotive components, cross-linked injection molding e.g. EVA tyres, telephone & coaxial cables and extruded pipes.

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DOSAGE

0.4 - 1.0 PHR depending upon the polymer used and the extent of expansion required.

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PACKING

MIKROFINE[®] ADC-3838 is packed in 20 Kg HDPE bags/ 10 kg UN approved cartons with a polyethylene liner inside as per customer's requirement.

The information given in this document is only a recommendation, believed to be reliable and is given in good faith but without warranty. Our advice does not release users from the obligation of checking its validity. The user should test the product to ascertain the suitability for the intended use. Specified properties mentioned in this document are based on our historical production performance and these properties or the whole document is subject to change without any prior notice, at our sole discretion. We are under no obligation to recall earlier issued documents.

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