



HPL Additives Limited

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MIKROFINE[®] ADC-4055/4075/4015

MIKROFINE[®] ADC-4055/4075/4015 is activated, self-dispersible universally employed chemical blowing agents in powder form for the production of cellular plastics. MIKROFINE[®] ADC 4055/4075/4015 is available in a range of particle sizes with a very close distribution.

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	:	Pale yellow free flowing powder
Odour	:	Odourless
Solubility	:	Insoluble in water and benzene. Soluble in dimethylformamide.
Health, safety & handling information	:	Relevant information can be found in sheet No. HPLA/MSDS/M/CBA/01

2 SPECIFIED PROPERTIES

Decomposition temperature (°C) (Open capillary tube method)	:	191 ± 2
Gas content (ml/gm at STP)	:	230 ± 5
Volatility (% w/w)	:	0.5 max.
pH (5% aqueous suspension at 25°C)	:	7.0 ± 0.5
Average particle diameter (micron)	:	
4055	:	4.5 - 5.5
4075	:	6.5 - 7.5
4015	:	10 - 12

3 SPECIAL FEATURES

MIKROFINE[®] ADC-4055/4075/4015 is completely dispersible. The product has a narrow particle size distribution for reliable performance.

MIKROFINE[®] ADC-4055/4075/4015 has been specially developed to produce white foams in PVC plastisol applications where it can be incorporated into PVC-plastisol as a dry powder during the normal mixing cycle. A pre-dispersion in a plasticizer is not needed.

Setting problems experienced with most blowing agent - plasticizer dispersions are eliminated with MIKROFINE[®] ADC-4055/4075/4015 grade.

MIKROFINE[®] ADC- 4055/4075/4015 is free flowing powders which do not agglomerate. This makes this product ideal for metering in hopper blender units on extruders and injection moulding machines.

MIKROFINE[®] ADC- 4055/4075/4015 can be incorporated into rubber compounds at the end of the mixing process and disperses easily in all compounds (even with relatively low viscosity).

With MIKROFINE[®] ADC-4055/4075/4015 vulcanizates with fine, uniform cell structure and smooth surface can be obtained and these products do not impart discoloration or odor to vulcanizates.

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APPLICATIONS

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DOSAGE

0.5 - 6.0 PHR depending on the polymer used and the extent of expansion required.

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PACKING

MIKROFINE[®] ADC -4055/4075/4015 is packed in 25kg HDPE bags/20kg or 25kg UN approved corrugated cartons with a polythene liner inside or 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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