

MIKROFINE[®] ADC-Z25/Z35/Z40

MIKROFINE[®] ADC- Z 25/Z 35/Z 40 is a chemical blowing agent in powder form for the production of low density cross linked polyolefinic foams by continuous extrusion and two and three stage batch processes.

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	:	Yellow orange free flowing powder
Odour	:	Odourless
Solubility	:	Insoluble in water, partially soluble in DMF and DMSO.
Gas composition	:	Mainly nitrogen and carbon monoxide
Health, safety & handling information	:	Relevant information can be found in sheet No. HPLA/MSDS/M/CBA/01

2 SPECIFIED PROPERTIES

Volatility (% w/w)	:	0.5 max.
Decomposition temperature (°C) (open capillary tube method)		
Z 25	:	200 ± 3
Z 35/Z 40	:	193 ± 3
Gas content (ml/gm at STP)	:	230 ± 5
pH (5% aqueous suspension at 25 °C)	:	7.0 ± 0.5
Ash content (% w/w)	:	0.3 max.
Average particle diameter (micron)		
Z 25	:	22 ± 3
Z 35	:	35 ± 2
Z 40	:	40 ± 2

3 SPECIAL FEATURES

MIKROFINE® ADC-Z products have a precisely controlled particle size with narrow distribution, essentially free from fine particles. Being coarser, their decomposition is slower than normal grades of MIKROFINE® ADC, which is of advantage in two and three stage batch processes for making low density cross-linked polyolefinic foams. MIKROFINE® ADC- Z products are free flowing and can be metered directly into hoppers mounted on extruders.

MIKROFINE® ADC- Z products have been specially designed for the foaming of chemically and physically cross-linked polyolefin.

Their high gas content makes these products cost effective blowing agents with an excellent cost/performance ratio.

Decomposition residue of MIKROFINE® ADC- Z products is nearly colorless and odourless.

4 APPLICATIONS

MIKROFINE® ADC- Z products have been specially developed for the expansion of chemically and physically cross linked extruded polyolefinic sheets to produce very low density products.

These are the blowing agents of choice for two and three stage batch processes for the production of low density polyolefinic foam blocks, end use of which include thermo insulation and packing materials-eco friendly replacements for polyurethane foams.

5 DOSAGE

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

6 PACKING

MIKROFINE® ADC Z grades are packed in 25kg HDPE bags/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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