



HPL Additives Limited

803, Vishal Bhawan, 95 Nehru Place
New Delhi - 110 019, India.
Tel : +91 - 011 - 2642 1570/71
Fax : +91 - 011 - 2647 4350
Email : hpl@hpl-group.com

MIKROFINE[®] ADC-1300

MIKROFINE[®] ADC-1300 is a chemical blowing agent based on Azodicarbonamide. It is useful in the processing temperature range of 160 - 190° C for foaming rubber compounds particularly PVC, LDPE and EVA co-polymers.

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 fine powder
Solubility	:	Practically insoluble in water
Gas composition	:	Mainly nitrogen and carbon monoxide
Health, safety & handling information	:	Relevant information can be found in sheet No. HPLA/MSDS/M/CBA/03

2 SPECIFIED PROPERTIES

Decomposition temperature (°C) (Open capillary tube method)	:	191± 3
Mesh size (+200 BSS) (% w/w)	:	0.5 max.
Volatility (% w/w)	:	0.5 max.

3 SPECIAL FEATURES

MIKROFINE[®] ADC-1300 is not soluble in oils and plasticisers generally used in compounding. However due to its fine particles, MIKROFINE[®] ADC-1300 can be dispersed easily during processing, if this process includes a milling operation. It can also be pre-mixed with appropriate oil or plasticiser. Since the decomposition residue of MIKROFINE[®] ADC-1300 is nearly white, it can be used in production of light coloured products. The environment in which decomposition takes place influences decomposition of MIKROFINE[®] ADC-1300 significantly. Useful quantities of gas are obtained in PVC at 170°C and in rubber compounds at 160°C.

4 APPLICATIONS

MIKROFINE[®] ADC-1300 is recommended for use

- in the production of packing materials and life jackets.
- in the production of micro cellular rubber, particularly polychloroprene
- in the production of expanded LDPE/EVA foams.
- in the expansion of PVC
- in the production of EPDM foam by compression moulding and continuous vulcanization techniques.

5 DOSAGE

0.5 - 5.0 PHR depending on the polymer used and the extent of expansion required.

6 PACKING

MIKROFINE[®] ADC-1300 is packed in 25 Kg 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.

HPL ADDITIVES LTD.

803, Vishal Bhawan, 95 Nehru Place
New Delhi - 110 019, INDIA.

Tel. : +91-11-2643 1522, 2642 1570

Fax : +91-11-2647 4350, 2646 0981

e-mail : hpll@hpl-group.com