

MIKROFINE[®] WEP

MIKROFINE[®] WEP is a specially coated urea activator, widely used to lower the decomposition temperature of azodicarbonamide and dinitropentamethylene tetramine based chemical blowing agents for rubber applications.

1 PRODUCT INFORMATION

Main constituent	:	Urea CAS No. (57-13-6) Mol. Formula [CN ₂ H ₄ O] Mol. wt. 60
Physical form	:	White fine powder
Odour	:	Odourless
Health, safety and handling information	:	Relevant information can be found in sheet No. HPLA/MSDS/M/ACT/03

2 SPECIFIED PROPERTIES

Decomposition temperature (°C) (Open capillary tube method)	:	132 ± 3
Mesh size (+200 BSS) (% w/w)	:	0.2 max.
Volatility (% w/w)	:	0.2 max.
pH (5% aqueous suspension at 25°C)	:	7.5 ± 0.5

3 SPECIAL FEATURES

MIKROFINE® WEP activates both azodicarbonamide as well as dinitrosopentamethylenetetramine based chemical blowing agents. Degree of activation depends on the quantity of MIKROFINE® WEP employed while a 1:1 ratio of MIKROFINE® WEP : DPT will decompose at nearly 140 °C MIROFINE® WEP:DPT in a ratio of 10:90 will decompose at 192 °C and 3 : 7 at 150 °C. Activation is somewhat less pronounced in azodicarbonamide where all proportions of 20 to 60 parts with 80 to 40 parts decompose nearly at 152-153 °C and 10:90 at 165 °C and 5:95 at 175 °C.

MIKROFINE® WEP can be used freely in the production of light colored or white articles as it is non-staining and does not contribute to any color to the finished article. It does not cause any color change on exposure too.

4 APPLICATIONS

MIKROFINE® WEP is used as a strong activator for DPT and ADC based products. It is also used as an odor suppressant in DPT blown articles.

5 DOSAGE

Depends on the application and formulation. For effective control of odour arising out of DPT decomposition a ratio of 1-1.2 for 1 parts of DPT is desirable.

6 PACKAGE

MIKROFINE® WEP is packed in 25 Kg HDPE bags/ UN approved corrugated cartons with a polythene liner inside.

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. 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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