TECHNICAL INFORMATION

SOLUTIONS FOR THE PLASTIC INDUSTRY

NEWOS

NEWOSTAT® 609

Product Category:	Antistat for aqueous plastic dispersions	
Fields of Application:	Internal antistat for plastic dispersions (such as PU, acrylic or latex dispersions) External antistat for the surface treatment of plastics	
Product Characteristics:	➢ anionic ➢ soluble in water and alcohols ➢ universally applicable for many plastics	
Chemical Composition:	Alkyl phosphate	
Technical Data:	Appearance (20 °C):	yellowish liquid
	Active content:	approx. 55%
	Flash point:	>100 °C
	Boiling range :	approx. 100°C
	Solidification range:	approx. 0°C
	Compatibility:	in many polar plastics (see above) within the recommended use concentration
Storage:	Shelf life:	in originally sealed drums, approximately one year from the date of delivery under the conditions recommended below
	Storage Conditions:	Recommended storage temperature: min +3°C, max +40 °C Frost resistant
Packaging:	drum / IBC	
Use concentration:	In dispersions or solutions approx. 1 to 3%, referring to the weight of the solid content. We strongly recommend to carry out own lab tests in order to determine the optimum dosage, especially when more than 3% are added.	

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NEWOSTAT® 609

Application:

As internal antistat:

In aqueous systems, NEWOSTAT® 609 is simply added to the plastic dispersion or solution whilst stirring. Some systems, however, require a lower mixing speed to avoid the generation of too much foam.

After the addition the material can be processed as usual. NEWOSTAT® 609 remains in the final product after drying and builds up an antistatic effect which lowers the surface as well as the volume resistance.

As external antistat in solutions for surface treatment:

NEWOSTAT® 609 can as well be used to formulate aqueous or alcoholic solutions for the antistatic treatment of surfaces. A possible formulation is given below:

1.5%	NEWOSTAT® 609
0.2%	nonionic wetting agent if wetting properties are insuffient (e.g. a fatty alcohol ethoxylate)
balance	water (or alcohol, e.g. isopropyl alcohol)

Such a solution can be sprayed onto plastic surfaces. The antistatic effect is built up after drying and prevents the treated surface from attracting dust by electrostatic charge. Please consider that the antistatic treatment of surfaces only reduce the surface resistance but not the volume resistance. The antistatic effect, therefore, is not permanent and the treatment should be repeated from time to time.

Further Information:

Before making any production trials, lab test series should be carried out to examine the suitability of NEWOSTAT® 609 for the intended application and to determine the optimum dosage.

Overdosage of antistats does not improve the antistatic effect and can cause undesirable side effects like discolouration of the final product or exudation of antistat onto the surface.

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