

## Antiox AHM

### Description

**ANTIOX AHM** is a synergistic blend of five non staining antioxidants, including three primary phenolic stabilizers, a thio-ester for the long term stability, and finally a phosphite, for the high temperature protection. Its physical form, allows very low dust formation in handling and good flowing properties.

### Application

This formula is specially designed for a wide spectrum protection either of hot-melt polymer systems or of polymer solutions. It can be used with adhesives, pressure sensitive adhesives, coatings, injection moulding or extrusions.

### Technical Specifications

Method of analysis	MU	Standard
1. Total Solids	%	99±1
5. Melting Range	°C	110 - 140

### Handling

1. For **HOT-MELT adhesives**, **ANTIOX AHM** is very efficient at the following concentrations:
  - thermoplastic rubbers, like SIS, SBS (e.g. Cariflex, Solprene, etc.): 1.2 - 1.5% on rubber content;
  - ethylene-vinylacetate (EVA, type ELVAX, etc.): 0.3 - 0.5% on EVA content;
  - thermoplastic polyurethanes (e.g. ESTANE, DESMOCOLL, etc.): 0.2 - 0.4% on PU content;
  - polyamides (e.g. Reamide, Versamide, etc.): 0.5 - 1.0% on PA content.

2. For **SOLVENT BASED adhesives**, **ANTIOX AHM** is very efficient at the following concentrations:

- natural rubber, SBR, chloroprene rubber, polyisoprene, butyl rubber: 0.25 - 0.5% on dry content.

**ANTIOX AHM** can be introduced directly into the compound, together with other recipe ingredients, or predispersed into one of them or dissolved (if it is a matter of solvent).

In the hot-melt continuous system (by extrusion process) it is advisable that a liquid component (like liquid rosin esters or naphthalic oil, etc.) is used to give some tack to the surface of granules, in order to have a fair distribution over the total mass. In the solvent systems, one can make a solution concentrate (exane, toluene, etc.), for example at 5 - 10% of solids.

### Packing

**ANTIOX AHM** is normally supplied in 40-50 kg fibre drums.

### Storing

**ANTIOX AHM** must be stored in a dry place to avoid agglomeration. Shelf life is 1 year.