



Technical Information

MICROFINE[®] AO-9

Antimony Trioxide

Microfine[®] AO-9 is a sub-micron particle size antimony trioxide with an average particle size of 0.9 microns. The product has a high tinting strength and a bright white powder color.

CAS Reg. Number [1309-64-4]

Sb₂O₃

Typical Properties

Appearance	Very Fine White Powder
Specific Gravity	5.5
Refractive Index	2.1
Loose Bulk Density, lb/ft ³	26 - 28
Particle Size avg., Sedigraph	0.4 - 0.6 μm
Fineness thru 325 mesh sieve	99.995%
Tinting Strength % of standard	120 - 130
Moisture, 2 hrs @ 105°C	0.1%

Typical Composition

Antimony Trioxide	99.3%
Arsenic	0.3%
Lead	0.2%
Iron	0.01%
Nickle	0.005%
Copper	0.005%
Acidity (H ₂ SO ₄)	0.15%

In rigid and plasticized PVC compounds, the addition of controlled amounts of **Microfine AO-9** will confer excellent flame retardant properties. In other plastics, paints and textiles that do not contain halogen, a suitable chlorinated or brominated compound must be added with the **Microfine AO-9** in order to obtain the required flame retardant properties.

The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in a cool, dry, well-ventilated area away from incompatible materials. Unless stated, proper storage will permit usage of the product for 6 to 12 months from the date of receipt. For additional handling and toxicological information, consult the GLCC Material Safety Data Sheet.

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