



DATA SHEET
BurnEx® ZTA

Dry Powder Colloidal Antimony Pentoxide Flame Retardant Additives

BurnEx® ZTA

Nyacol Nano Technologies, Inc. offers a dry powder colloidal antimony pentoxide for use as a synergist with PVC and other halogenated polymers.

ADVANTAGES OVER CONVENTIONAL ANTIMONY TRIOXIDE SYSTEMS

- Free-flowing particles for exceptional consistency, better mixing and easy processing.
- Non-pigmenting for light transmission.
- Reduces pigment loading for mass tone colors.
- Maintains brilliant color of fluorescent pigments and dyes.

SUMMARY

FORM:

BurnEx ZTA is a powder form of colloidal antimony pentoxide. BurnEx ZTA has an alkaline surface formed by neutralizing the antimony pentoxide with sodium hydroxide. The particles are free-flowing agglomerates approximately 10–30 microns in size.

FUNCTION:

BurnEx ZTA replaces antimony trioxide as a flame retardant synergist in vinyl plastisols, injection molding compounds and calendar compounds. BurnEx ZTA is a sodium-neutralized material with an alkaline surface. It will absorb metallic ions and is used where acidic materials interfere with other properties.

TYPICAL PROPERTIES

Total antimony expressed as antimony pentoxide (Sb ₂ O ₅), % by weight:	80
Form:	White powder

Agglomerate size, microns:	10 – 40
Ultimate particle size, microns:	0.03
pH, 10% in water:	9

PACKAGING

15-gallon fiber drum / 56 liters: 96 lb. net / 43.5 kg. net

CUSTOM PRODUCTS

Nyacol Nano Technologies, Inc. can vary specific properties such as the particle size distribution, pH, concentration, and packaging for your particular

application. Contact us for details on availability, price and minimum order size for custom products.

NON-FR PRODUCTS

Nyacol Nano Technologies, Inc. also manufactures colloidal materials for the ceramic, catalyst, metal casting, and oil refining industries. These products

include oxides of aluminum, antimony, cerium, tin, yttrium, and zirconium. Contact us for information on these products.

FOR ADDITIONAL INFORMATION OR TO PLACE AN ORDER

Nyacol Nano Technologies, Inc.
Megunko Road
P.O. Box 349
Ashland, MA 01721-0349 U.S.A.

Telephone: 800-438-7657 Toll-Free
508-881-2220 Local Area
Fax: 508-881-1855
Internet: www.nyacol.com

Information herein is accurate to the best of our knowledge. Suggestions are made without warranty or guarantee of results. Before using, user should determine the suitability of the product for its intended use and user assumes risk and liability in connection therewith. We do not suggest violation of any existing patents nor give permission to practice any patented invention without a license. 13/01