

Technical Information

Thermoguard[®] S Antimony Trioxide

Thermoguard[®] S is a high quality, performance grade of antimony trioxide used as a flame retardant synergist.

Antimony Trioxide
CAS Reg. Number [1309-64-4]

Typical Properties		
Sb₂O₃	Appearance	Fine White Powder
	Specific Gravity	5.3
	Average Particle Size (Sedigraph)	1.0-1.8µm
	pH	2.0 – 6.5
	Moisture %	0.1 max
	Sieve Residue < 325 mesh	0.1 max
	Melting Point	656°C, 1231°F
	Typical Composition	
Antimony Trioxide	99.3% min	
Arsenic	0.30% max	
Lead	0.20% max	
Iron	0.003% max	
Sulfate	0.001% max	
Selenium	0.002% max	
Copper	0.001% max	
Nickel	0.001% max	
Mercury	0.001% max	

APPLICATIONS

Thermoguard[®] S antimony trioxide is a highly effective flame retardant synergist used in conjunction with organohalogen flame retardants or halogen containing resins, such as PVC. Applications for flame retardant resins include ABS, HIPS, PP, PE, EVA, EPDM, PBT, Epoxies, Polyurethanes, Phenolics, PVC, Rubber and many other polymers. Other applications are paint and coatings, textile treatments, glass, ceramics, inorganic pigments, chemical manufacturing, petroleum refining, electronics and solid lubricants.

PACKAGING

Standard packaging is 50lb multiwall paper bags and 2200lb super sacks. Packages are on skids with stretch wrap. Special packages are available on request.

HEALTH AND SAFETY

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. For additional handling and toxicological information, consult the GLCC Laurel Material Safety Data Sheet.

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