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## Antimony Trioxide

### Applications

TCC's **Antimony Trioxide**, also known as antimony oxide ( $Sb_2O_3$ ), is the most widely produced compound of elemental antimony.

Typical applications for **Antimony Trioxide** include flame retardant for use in plastics, rubber, paints, paper, textiles, and electronics; polyethylene terephthalate polymerization catalyst; a clarifying agent for glass; an opacifier for porcelain and enamel; and a white pigment for paint.

When used as a flame retardant, **Antimony Trioxide** is often used in combination with halogenated compounds. **Antimony Trioxide** acts as a synergist to enhance the activity of the halogenated flame retardant. In the absence of **Antimony Trioxide** about twice as much halogenated compound would be needed to reach the same level of flame retardancy.