ANTIMONY TRIOXIDE FOR ACES / COMPOSITES
About Brenntag Specialties, Inc.:

Brenntag Specialties, Inc. (BSI) offers a wide variety of high quality products to the composites market and their allied industries.

BSI’s focus is to work closely with research and development technicians to aid in the fine tuning of formulas, concentrates and compound mixtures. Our Technical Services Department and Regulatory Affairs Manager supports BSI’s daily functions to help build customer satisfaction.

BSI is ISO 9001:2008 certified and is a member of NACD Responsible Distribution Process (RDP). Any one of our warehouse facilities can provide Just-In-Time delivery as well as maintain total traceability of product and lot numbers.

About Brenntag:

Brenntag, the global market leader in chemical distribution, covers all major markets with its extensive product and service portfolio. Headquartered in Mülheim an der Ruhr, Germany, the company operates a global network with more than 490 locations in 72 countries.

In 2014, the company, which has a global workforce of more than 13,500, generated sales of EUR 10.0 billion (USD 13.3 billion). Brenntag connects chemical manufacturers and chemical users. The company supports its customers and suppliers with tailor-made distribution solutions for industrial and specialty chemicals. With over 10,000 products and a world-class supplier base, Brenntag offers one-stop-shop solutions to around 170,000 customers. This includes specific application technology, an extensive technical support and value-added services such as just-in-time delivery, product mixing, formulation, repackaging, inventory management and drum return handling. Long-standing experience and local excellence in the individual countries characterize the global market leader for chemical distribution.

Antimony Trioxide

Antimony trioxide, also known as antimony oxide or $\text{Sb}_2\text{O}_3$, is the most widely produced compound of elemental antimony. The nations that produce the most antimony trioxide are China, South Africa, Bolivia, Russia, Tajikistan, and Kyrgyzstan. Typical applications for antimony trioxide include flame retardant synergist 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 is used 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.


Quality Management Registration


Brenntag Specialties, Inc. / 1000 Coolidge Street, South Plainfield, NJ 07080 / 800.732.0562
**Amspec KR**

Amspec KR is a grade of antimony trioxide appropriate for use as a flame retardant synergist used in combination with a halogen compound. Many materials utilize its flame retardant properties including plastics, rubber, paints, paper, textiles and electronics. Antimony trioxide is appropriate for use in polypropylene (PP), polyethylene (PE), ethylene propylene diene M-class rubber (EPDM), polyvinyl chloride (PVC), high impact polystyrene (HIPS), acrylonitrile butadiene styrene (ABS), polyurethanes, phenolics, epoxies, and many others.

Other applications of antimony trioxide include a clarifying agent for glass, an opacifier for porcelain and enamel, and a white pigment.

**Amspec LTS**

Amspec LTS is a grade of antimony trioxide appropriate for use as a flame retardant synergist used in combination with a halogen compound. Many materials utilize its flame retardant properties including plastics, rubber, paints, paper, textiles and electronics. Antimony trioxide is appropriate for use in polypropylene (PP), polyethylene (PE), ethylene propylene diene M-class rubber (EPDM), polyvinyl chloride (PVC), high impact polystyrene (HIPS), acrylonitrile butadiene styrene (ABS), polyurethanes, phenolics, epoxies, and many others.

LTS is specifically for applications where you need to minimize the tinting strength of antimony trioxide. This low tinting strength grade means you can use less pigment to achieve your desired color specification.

**Amspec Select**

Amspec Select is a higher purity grade of antimony trioxide compared to Amspec KR antimony trioxide. Amspec Select can be used in flame retardant applications where lead levels are of concern, like in Europe to meet the requirements of the RoHS Directive. The Select grade is also used as a catalyst in PET production.

**Amspec SP**

Amspec SP is the highest purity antimony trioxide Amspec offers. Amspec SP is suitable for highly lead and/or arsenic sensitive applications.
antimony trioxide  flame retardant grade

AMSPEC KR

**Typical Chemical Composition**

- Minimum Total Sb₂O₃ (%) 99.5
- Maximum Impurity Levels
  - Arsenic, As (%) 0.10
  - Lead, Pb (%) 0.10
  - Selenium, Se (ppm) 30
  - Iron, Fe (ppm) 60

**Typical Chemical Properties**

- Specific Gravity 5.2 – 5.7
- Average Particle Size (m) 0.9 – 1.3
- Color
  - Minimum L value 90.0
  - Minimum a value -1.5
  - Maximum b value 4.0
- 325 Mesh (%) 0.1

**Description**

Amspec KR is a grade of antimony trioxide appropriate for use as a flame retardant synergist used in combination with a source of halogen. Many materials utilize its flame retardant properties including plastics, rubber, paints, paper, textiles and electronics. Antimony trioxide is appropriate for use in PP, PE, EPDM, PVC, HIPS, ABS, polyurethanes, phenolics, epoxies, and many others.

Other applications of antimony trioxide include a clarifying agent for glass, an opacifier for porcelain and enamel, and a white pigment.

For any handling and storage questions please see the Amspec Material Safety Datasheet for this product.

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The information contained in this publication gives typical analysis based on historical production performance. The user assumes all risk because the conditions of use are beyond Amspec Chemical Corporation’s control. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering a material or its use. Consult any relevant material safety datasheets before handling this product.
antimony trioxide  flame retardant grade low tinting strength

AMSPEC LTS

Typical Chemical Composition

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>Amspec LTS is a grade of antimony trioxide appropriate for use as a flame retardant synergist used in combination with a source of halogen. Many materials utilize its flame retardant properties including plastics, rubber, paints, paper, textiles and electronics. Antimony trioxide is appropriate for use in PP, PE, EPDM, PVC, HIPS, ABS, polyurethanes, phenolics, epoxies, and many others.</td>
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<table>
<thead>
<tr>
<th>Typical Chemical Composition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Total Sb$_2$O$_3$ (%)</td>
<td>99.5</td>
</tr>
<tr>
<td>Maximum Impurity Levels</td>
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</tr>
<tr>
<td>Arsenic, As (%)</td>
<td>0.10</td>
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<tr>
<td>Lead, Pb (%)</td>
<td>0.10</td>
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<tr>
<td>Selenium, Se (ppm)</td>
<td>50</td>
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<td>Iron, Fe (ppm)</td>
<td>60</td>
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Typical Chemical Properties

<table>
<thead>
<tr>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>LTS is specifically for applications where you need the tinting strength of the antimony trioxide to be minimized. This low tinting strength grade means you can use less pigment to achieve your desired color specification.</td>
</tr>
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<table>
<thead>
<tr>
<th>Typical Chemical Properties</th>
<th>Description</th>
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<tr>
<td>Specific Gravity</td>
<td>5.2 – 5.7</td>
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<td>Average Particle Size (m)</td>
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<tr>
<td>Color</td>
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<tr>
<td>Minimum L value</td>
<td>90.0</td>
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<tr>
<td>Minimum a value</td>
<td>-1.5</td>
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<tr>
<td>Maximum b value</td>
<td>4.0</td>
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<tr>
<td>325 Mesh (%)</td>
<td>0.1</td>
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</table>

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antimony trioxide catalyst grade

**AMSPEC SELECT**

**Typical Chemical Composition**

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
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<tbody>
<tr>
<td>Minimum Total Sb₂O₃ (%)</td>
<td>99.8</td>
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<td>Minimum Total Sb+3 (%)</td>
<td>83.4</td>
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<td>Maximum Impurity Levels</td>
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<tr>
<td>Arsenic, As (ppm)</td>
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<tr>
<td>Lead, Pb (ppm)</td>
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<td>Bismuth, Bi (ppm)</td>
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<td>Iron, Fe (ppm)</td>
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<tr>
<td>Copper, Cu (ppm)</td>
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<tr>
<td>Tin, Sn (ppm)</td>
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<tr>
<td>Sodium, Na (ppm)</td>
<td>100</td>
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<td>Nickel, Ni (ppm)</td>
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**Typical Chemical Properties**

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<th>Property</th>
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<td>Minimum a value</td>
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<td>Maximum b value</td>
<td>4.0</td>
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<tr>
<td>325 Mesh (%)</td>
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<tr>
<td>Minimum Ethylene Glycol Light</td>
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<tr>
<td>Transmittance (%)</td>
<td>93.0</td>
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</table>

**Description**

AMSPEC Select is a higher purity grade of antimony trioxide compared to AMSPEC KR antimony trioxide. AMSPEC Select can be used in flame retardant applications where lead levels are of concern, like in Europe to meet the requirements of the RoHS Directive. The Select is also used as a catalyst in PET production.

For any handling and storage questions please see the AMSPEC Material Safety Data Sheet for this product.

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The information contained in this publication gives typical analysis based on historical production performance. The user assumes all risk because the conditions of use are beyond AMSPEC Chemical Corporation’s control. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering a material or its use. Consult any relevant material safety data sheets before handling this product.

Revised August 2008
AMSPEC SP

**Typical Chemical Composition**

- **Minimum Total Sb₂O₃ (%)** 99.9
- **Minimum Total Sb+3 (%)** 83.9

**Maximum Impurity Levels**

- **Arsenic, As (ppm)** 20
- **Lead, Pb (ppm)** 20
- **Selenium, Se (ppm)** 10
- **Iron, Fe (ppm)** 15

**Typical Chemical Properties**

- **Specific Gravity** 5.2 – 5.7
- **Average Particle Size (m)** 2.0 – 5.0

- **Color**
  - **Minimum L value** 90.0
  - **Minimum a value** -1.5
  - **Maximum b value** 4.0
- **325 Mesh (%)** 0.1

**Description**

AMSPEC SP is the highest purity antimony trioxide offered by AMSPEC. AMSPEC SP is suitable for highly lead and/or arsenic sensitive applications.

For any handling and storage questions please see the AMSPEC Material Safety Datasheet for this product.

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<th>Gabriel</th>
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<td>A&amp;C Catalysts</td>
<td>Phenoxy Resins and WB Dispersions</td>
<td>Blocked Isocyanates</td>
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<td>WB Polyurethane Disp.</td>
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<td>Antimony Trioxide</td>
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Providing Solutions Through Technology........
ACES - Adhesives / Coatings / Elastomers / Sealants / Ink:

Ashland
- Defoamers
- Surfactants
- pH Neutralizing Agents

BSI Branded
- Stearates
- Ground / Unground ATH

Koster Keunen
- Waxes

Momentive
- Silanes
- Silicone Additives
- Surface Tension Mod.

Nabaltec
- Precipitated ATH
- Boehmite

PPG
- Flatting Agents
- Rheological Modifiers
- Anti-Corrosion Pigments

Solenis
- Misc. Additives

Troy
- Biocides / Fungicides

Wacker
- HDK® Fumed Silica

Minerals and Extenders:

Almatis
- Calcined Alumina
- Tabular Alumina

Barretts Minerals
- Talc

BSI Branded
- Barytes
- Low Micron Talc

Excaliber
- Ground Barium Sulfate
- Calcium Carbonate

Huntsman
- Precip. Barium Sulfate
- Zinc Sulfide

ICL - Dead Sea Periclase
- Magnesium Oxide

Martin Minerals
- Wet Ground Micro Mica

Mississippi Lime
- Calcium Hydroxide
- Calcium Oxide

Pacer
- Dry Ground Mica
- Potassium Feldspar

Potters
- Glass Microspheres

Solvay
- Rare Earth Oxides

Southeastern Perf. Minerals
- Wet Ground Mica

Specialty Minerals
- Ground Cal. Carb.
- Precipitated Cal. Carb.

US Gypsum
- Calcium Sulfate

US Silica
- Ground Silica

Pigments and Colorants:

Achiewell
- Titanium Dioxide

AOC
- Pigment Dispersions

Huntsman (Holliday)
- Ultramarine Blue / Violet
- Manganese Violet
- Iron Oxide Pigments

Sid Richardson
- Carbon Black

Sun Chemical
- Organic Pigments
- Pigment Preparations
- Special Effect Pigments
- Pearlescents / Metallics

Yipin Pigments
- Iron Oxides
- Chromium Oxides
- Zinc / Magnesium Ferrite

Applications Lab:
The main purpose of the Applications Lab is to assist customers with existing formulas or the development of new formulas. Customers may contact us to discuss assistance from BSI in developing new formulas or assist in refining or reformulating existing formulas. This service may help the chemist or formulator accelerate time to market of new products. Our ACES and Construction labs are also capable of polymer synthesis to support new product development.

Formulators who are interested in learning more about the Labs, can contact their local Sales or Customer Service Representative.

Composites and Advanced Materials:

Resins:
- **AOC**
  - Polyester Resins
    - Laminating
    - Infusion / RTM
    - Cast Polymer
    - Pultrusion
  - Vinyl Ester Resins
    - Corrosion
    - Fire Retardant
    - Closed Molding
- **Advance Coatings**
  - Fire Retardant Resins
    - Class I
    - Class II
- **BSI**
  - Epoxy Resins
  - Epoxy Curing Agents
- **Olin**
  - Epoxy Resins
  - Epoxy Curing Agents

Core Materials:
- **DIAB**
  - Core Materials
    - PVC Foam
    - Balsa Wood
    - PET
- **Frekote (Henkel)**
  - Mold Release Products
    - Mold Release Agents
    - Mold Cleaner / Sealer
- **Rexco**
  - Mold Release Products
    - Wax Polishing Compounds
    - Polyvinyl Alcohol (PVA)
    - Paste Wax

Fiberglass:
- **Fiberlink**
  - Fiberglass Reinforcement
    - Chopped Strand Mat
    - Direct Roving
    - Spray-Up Roving
    - Surfacing Veil
- **Matrix Composites**
  - Fiberglass Reinforcement
    - Combo Mat / Woven Roving
    - Knitted Fabrics

Engineered Minerals:
- **BSI**
  - Ground Cal. Carbonate
  - Ground ATH Bayer / White
  - Talc
- **Potters Industries**
  - Microspheres
    - Hollow / Non-Porous
- **Safas**
  - Decorative Granular and Spray Polymers

Compounds / Adhesives:
- **Advance Coatings Co.**
  - Polyester Putty Adhesives
    - General Purpose
    - Milled Fiber
    - Fire Retardant
- **AOC**
  - Polyester Gelcoats
    - General Purpose
  - Marble Cast Polymer
  - Marine
- **Achiewell**
  - Titanium Dioxide
    - Rutile / Anatase
- **Advance Coatings Co.**
  - Polyester Gelcoats
    - GP / Marine / Tooling

Colorants / Pigments:
- **AOC**
  - Titanium Dioxide
    - Rutile / Anatase
- **Achiewell**
  - Titanium Dioxide
    - Rutile / Anatase

Additives / Solvents:
- **AOC**
  - UV Absorbers / Stabilizers
  - Antimony Trioxide
  - Air Release
  - Wetting Agents
  - Tack Free / Air Dry
  - Cobalt 6% / 12%
  - DMA
  - Hydroquinone
  - Acetone
  - Methylene Chloride

Markets Served:
Marine, Aerospace, Automotive, Mass Transportation, Corrosion, Industrial, Architecture, Cast Polymer and Polymer Concrete.
Brenntag Specialties, Inc., a premier specialty ingredients distributor to the ACES industry, is pleased to showcase our ACES/Construction Applications Laboratory in North Wales, PA. Mr. Robert Souerwine, Technical Director - ACES/Construction oversees this facility. Additionally, Mr. Yanmin Zhong, PhD, ACES Technical Specialist, provides over 25 years of ACES formulation experience. He brings exceptional skill and knowledge in polymer synthesis and starting formulations.

This fully equipped applications laboratory will focus on ACES/Construction Industry formulations, while intending to promote new ideas and concepts as customers’ demands change.

Mr. Robert Souerwine, Technical Director - ACES/Construction, “Our goal is twofold: to assist our customers in bringing new products to market faster in response to rapidly changing customer needs, and to promote unique ingredients from our specialty suppliers. We have established and will continue to develop strategic and exclusive relationships with premier vendors to the ACES/Construction market. We expect to grow successfully by investing in resources of value for our customers. Formulas created by the lab will showcase multiple suppliers with the aim towards providing a one-stop solution for customers.”

The main purpose of the Applications Lab is to assist customers with existing formulas or, the development of new formulas. Customers may contact us to discuss assistance from BSI in developing new formulas or assist in refining or reformulating existing formulas. This service may help the chemist or formulator accelerate time to market of new products.

Formulators interested in learning more about Brenntag’s expanded capabilities in North America, or obtaining samples, can contact their local Sales or Customer Service Representative or visit our website at www.brenntagspecialties.com.
Brenntag Specialties, Inc. Local Offices

We have 6 Regional Sales Offices throughout the continental US with Customer Service Departments for easy ordering and inquiries. Our highly trained Sales and Customer Service Representatives have easy access to account information, such as orders, pricing, inventory, contracts and purchasing history.

<table>
<thead>
<tr>
<th>Region</th>
<th>Address</th>
<th>Phone Numbers</th>
<th>Fax Numbers</th>
<th>Email Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate</td>
<td>1000 Coolidge Street, South Plainfield, NJ 07080</td>
<td>800-732-0562, 800-833-8139 (Fax-General)</td>
<td><a href="mailto:CSNewJersey@Brenntag.com">CSNewJersey@Brenntag.com</a></td>
<td></td>
</tr>
<tr>
<td>Midwest</td>
<td>24012 W. Renwick Rd, Suite 200, Plainfield, IL 60544</td>
<td>800-833-8140, 800-833-8141 (Fax)</td>
<td><a href="mailto:CSChicago@Brenntag.com">CSChicago@Brenntag.com</a></td>
<td></td>
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<tr>
<td>Northeast</td>
<td>5700 Tacony Street, Philadelphia, PA 19135</td>
<td>800-423-7423</td>
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<td>Southwest</td>
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<td>6525 The Corners Parkway, Norcross, GA 30092</td>
<td>800-833-8142, 800-833-8143 (Fax)</td>
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<tr>
<td>Western</td>
<td>355 E. Rincon Street, Suite 200, Corona, CA 92879</td>
<td>800-227-1345, 925-376-8209 (Fax)</td>
<td><a href="mailto:CSCorona@Brenntag.com">CSCorona@Brenntag.com</a></td>
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