

BYK-MAX HS 4317

High-performance inorganic heat stabilizer formulation for filled and unfilled polyamide compositions to provide superior stability during long exposure to high temperatures and improved CTI for electrical applications.

Product data

Composition

Copper-based inorganic heat stabilizer composition

Typical properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Bulk density: 0.67 kg/m³
Color: off-white-light grey
Delivery form: pellet

Storage and transportation

Product shelf life in unopened original packaging: 24 months
Store in sealed containers in a cool, dry, and well-ventilated place.

Special note

The product tends to hydrolyze when exposed to humidity. The degree of hydrolysis depends on temperature, humidity, and the length of exposure. This can cause a change in color from white to grey/greenish. This change typically has no influence on the efficiency of the product.

Applications

Thermoplastics

Special features and benefits

BYK-MAX HS 4317 provides a complete stabilization package designed for unfilled, mineral-filled, and glassfiber-filled polyamide composites. The stabilization package inhibits thermo-oxidative decomposition by intercepting radicals and decomposing reactive peroxides. Depending on the glass-fiber content and dosage, BYK-MAX HS 4317 can help achieve a long-term heat aging duration beyond 2000 hours at 150 °C and beyond 5000 hours at 120 °C.

Unlike other inorganic stabilization systems, BYK-MAX HS 4317 offers extended in-service durability and improved CTI for electrical applications.

BYK-MAX HS 4317 is manufactured with a tight concentration specification for reliable performance. It provides long-term thermal stabilization, is safe, and easy to handle.

Recommended use

Extrusion and blow molding parts	■
Injection and compression molding parts	■
Thick films and sheets	■
Fibers	□

■ Especially recommended □ Recommended

Recommended levels

0.5-3 % additive (as supplied) based on the polyamide portion of the formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

This product can be added via volumetric or gravimetric dosing units during processing in all types of extruders, blow molding and injection molding machines.



Your local
contact

BYK-Chemie GmbH

Abelstraße 45
46483 Wesel
Germany
Tel +49 281 670-0
info@byk.com
www.byk.com



Download
our app:
byk.com/app

ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK-AQUAGEL®, BYK®-DYNWET®, BYK-MAX®, BYK®-SILCLEAN®, BYKANOL®, BYKCARE®, BYKETOL®, BYKJET®, BYKONITE®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, NANOBYK®, OPTIBENT®, OPTIGEL®, PURABYK®, RECYCLOBYK®, RHEOBYK®, SCONA®, SILBYK®, TIXOGEL® and VISCOBYK® are registered trademarks of the BYK group.

The information contained herein is based on our current knowledge and experience. No warranties, guarantees and/or assurances of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. Any information about suitability, use or application of the products is non-binding and does not constitute a commitment regarding the products' properties, use or application. Contractual terms and conditions, in particular agreed product specifications, always take precedence. We recommend that you test our products in preliminary trials to determine their suitability for your intended purpose prior to use. We reserve the right to make any changes and to update the information herein without notice.