Ketjenblack EC-300J

Electroconductive carbon black

Pure electroconductive carbon black extremely suitable for antistatic and electroconductive applications.

CAS number 1333-86-4

TSCA status listed on inventory EINECS/ELINCS No. 215-609-9

Specifications

Nouryon

Apparent bulk density	125-145 kg/m ³
Appearance	Black free-flowing pellets
Ash	≤ 0.05 %
Fines <125 micron	≤7%
Grit content	≤ 30 mg/kg
lodine absorption	740-840 mg/g
Moisture	≤ 0.5 %
pH	9.0-10.5
Pore volume, DBP	310-345 ml/100g
Volatiles	≤ 1.0 %

Applications

Ketjenblack EC-300J is a very pure carbon black extremely suitable for antistatic and electroconductive applications. Due to its unique morphology and the very high surface area of approx. 800 m2/g (BET), only one third the amount of Ketjenblack EC-300J is needed compared to conventional electroconductive blacks in order to achieve the same conductivity. The lower loading of Ketjenblack EC-300J allows easier processing for those polymers sensitive to filler addition, thus minimizing loss in mechanical and rheological properties. Ketjenblack EC-300J when thoroughly dispersed with the polymer significantly increases the conductivity of the resulting compound. Ketjenblack EC-300J can be used in all types of polymers, thermoset, thermoplastic as well as elastomers. Due to its unique morphology and structure with relative low amounts of Ketjenblack EC-300J excellent conductive material can be made. The low grit content results in very smooth surfaces during extrusion. The loading needed to obtain a certain conductivity can vary significantly per type of polymer. More detailed information is provided in our special Ketjenblack EC Technical Bulletin. Ketjenblack EC-300J has a very low ash content, which makes it the preferred material for semicon applications in cable shielding. Ketjenblack EC-300J can also be used to produce conductive coatings and primers. Also here already at very low loading levels optimal electroconductive performance is obtained minimizing loss in mechanical and rheological properties. Some other applications are batteries, packaging for IC parts, tubing, flooring, carpet backing, automotive parts, cell phones and many more. For even more demanding applications Ketjenblack EC-600JD is available of which about half the amount is needed to obtain the same conductivity as with Ketjenblack EC-300J.

Storage

Nouryon recommends to store Ketjenblack EC-300J in a dry well-ventilated place away from direct sunlight. The packaging can be damaged if exposed to direct sunlight for more than 30 minutes.

Note

When stored under the recommended storage conditions, Ketjenblack EC-300J will remain within the Nouryon specifications for a period of at least 12 months after delivery.

Packaging and transport

The standard packaging is 10 kg net in a vented PE bag. The vent consists of a small plastic valve which contains HDPE, NBR and cellulosic parts, which are not readily dispersed during compounding. Due to this, we strongly advice not to put the Ketjenblack EC-300J including the bag into the mixing system. A full pallet carries 400 kg net. Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Ketjenblack EC-300J is classified as a non-hazardous good according to national and international transport regulations.

Safety and handling

Please refer to the Safety Data Sheet (SDS) for detailed information on the safe storage, use and handling of Ketjenblack EC-300J. This information should be thoroughly reviewed prior to acceptance of this product. The SDS is available at https://polymerchemistry.nouryon.com.

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Nouryon, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nouryon does not accept any liability whatsoever arising out of the use of or reliance on this information, or out of the use or the performance of the product. Nothing contained herein shall be construed as granting or extending any license under any patent. Customer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued information on the subject matter covered. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

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