Combustible Dust Properties of Carbon Black

Birla Carbon’s carbon black products include all ASTM, BC, CD, Conductex®, Copeblack®, PM, Raven®, and Ultra® grades.

Carbon black is defined by the U.S. Occupational Safety and Health Administration (OSHA) as a ST-1 combustible dust. This classification indicates that carbon black, if suspended in the optimal concentration of air with an ignition source of sufficient intensity can result in a weak explosion (Kst <200 m-bar/sec). Similarly, carbon black requires an ignition source of significant intensity, generally > 100 joules, to ignite any suspended materials. We strongly recommend that our customers have these products tested under conditions representative of their manufacturing process in order to assure that properly designed safeguards are in place to protect personnel and plant operations.

The information presented within this publication is based on Birla Carbon’s analysis and the analysis of others. Birla Carbon disclaims all representations and warranties regarding performance or use, express or implied, including implied warranties of merchantability and fitness for a particular purpose. The user is responsible for determining the suitability of any product for a specific purpose and the manner in which the product is used. Before handling, using, or processing any material, always read its Safety Data Sheet.

For additional information or for updates to this information, please email bc.hse@adityabirla.com or visit www.birlacarbon.com

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