

MONARCH[®] 4750 SPECIALTY CARBON BLACK

Product highlights

MONARCH 4750 specialty carbon black is a High Purity Furnace Black that meets the following purity requirements as required by the U.S. Food & Drug Administration (FDA):

- ◆ Total polyaromatic hydrocarbons (PAHs) not to exceed 0.5 parts per million (ppm)
- ◆ Benzo[a]pyrene not to exceed 5.0 parts per billion (ppb)



As a result of a new Food Contact Notification (FCN) submitted by Cabot to FDA (FCN 1789), MONARCH 4750 can be used in various food contact applications, including: as a component of adhesives as a colorant in resinous and polymeric coatings; as a colorant in paper and paperboard in contact with aqueous and fatty foods; as a colorant in paper and paperboard in contact with dry foods; and as a colorant for polymers. It is to be used at levels not to exceed the minimum required to accomplish the intended technical effect. It is not for use in contact with infant formula and human milk.

The FDA has granted this approved use only for Cabot Corporation's High Purity Furnace Blacks as listed in FCN 1789.

Key applications

MONARCH 4750 specialty carbon black can be used in various food contact applications where FDA requirements are needed. This product also complies with regional food contact legislation such as European Union (Reg. No. 10/2011), Japan, China, and other regions. Example applications include:

- ◆ Rigid food packaging
- ◆ Flexible food packaging
- ◆ Thermoformed trays
- ◆ Non-food applications where high purity is desired such as parts that carry the GS (Geprüfte Sicherheit)

Mark Certification and Regulation (EU) No 1272/2013, amending Annex XVII of REACH Regulation

Cabot Corporation uses a robust testing protocol to certify that MONARCH 4750 specialty carbon black meets the required purity levels and can be used in FDA plastics applications.

Performance features

MONARCH 4750 specialty carbon black exhibits a similar level of jetness and blue undertone similar to our BLACK PEARLS[®] 880, enabling exceptional color and opacity performance in end products. A product with similar morphology, BLACK PEARLS 4750 specialty carbon black, is available in an easier-to-handle pelleted form.

More information on our food contact products can be found in our brochure, "Specialty Carbon Blacks for Food Contact Applications in Plastics."

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TYPICAL PROPERTIES

PROPERTY	VALUES	TEST METHOD
Iodine number (mg/g)	258	ASTM D-1510
OAN (cc/100g)	122	ASTM D-2414
Tint (%)	148	ASTM D-3265
325 mesh residue	<200	ASTM D-1514

The data in the table above are typical test values intended as guidance only; they are not product specifications. Product specifications are available upon request from your Cabot representative.

Product form and logistics

- ◆ Product form: powder
- ◆ Regional availability: global
- ◆ Bag packaging options: 8 kg bags
- ◆ Bulk packaging options: multiple

A Cabot issued food contact statement for MONARCH 4750 specialty carbon black is available from your Cabot representative

For information on product-specific storage conditions, please refer to the applicable Safety Data Sheet (SDS) available from your Cabot representative or at cabotcorp.com.

The BLACK PEARLS and MONARCH names are registered trademarks of Cabot Corporation.

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