



## CARBON BLACK FEEDSTOCK

Complex mixture of (mainly aromatic) C12 and higher hydrocarbons

### General

CARBON BLACK FEEDSTOCK is a mixture of C12 and higher components including naphthalene, methyl-indenes, anthracene, fluorene and other polyaromatic components. It originates from high temperature cracking of petroleum fractions.

CARBON BLACK FEEDSTOCK is used to produce carbon black, a widely-used reinforcing agent in the rubber and tire industry.

CARBON BLACK FEEDSTOCK may also be used as fuel oil blending component.

### Available Grades

CARBON BLACK FEEDSTOCK - One grade is available.

### Physical Properties

CARBON BLACK FEEDSTOCK is a brown, viscous liquid with a low vapor pressure. It is immiscible / insoluble in water. The product originates from petroleum cracker operations, hence as supplied is low in sulfur, but the composition may vary in time.

Typical physical properties along with product specific characteristics are given below.

### Product Typical Properties

Test Parameter	CARBON BLACK FEEDSTOCK
Specific Gravity (15 °C) (Water=1)	1.07 – 1.09
Vapor Pressure (20 °C)	< 1.3 hPa
Relative Vapor Density (Air=1)	~ 5
Flash Point (°C)	70 – 95
Pour Point (°C)	-20 to -35
Kinematic Viscosity (mm <sup>2</sup> /s; cSt)	24 (60 °C)
Sieve Retentions (ppm)	40 – 90
Ash (%-w/w)	< 0.01
Sulfur (%-w/w)	0.01 – 0.04
Carbon (%-w/w)	93
Sodium (ppm)	< 10
Potassium (ppm)	< 1
Appearance	Brown viscous liquid

*Note 1: Data above are based on average production data from 2004. As the product originates from petroleum cracker operations these values may vary during the year as result of changing operational conditions of the cracker.*

*Note 2: The data above are typical values, not to be construed as specifications. Users should confirm results by their own tests.*

## Product Typical Composition

Component	CARBON BLACK FEEDSTOCK
Naphthalene	10 %
Methylnaphthalene	20 %
Biphenyl	5 %
Methylbiphenyl	5 %
Fluorene	5 %
Anthracene	5 %
Asphaltenes	10 %
Other polycyclics	40 %

*Note 1: All data are given in %-w/w unless stated otherwise.*

*Note 2: Data above are based on average production data from 2004. As the product originates from petroleum cracker operations these values may vary during the year as result of changing operational conditions of the cracker.*

*Note 3: The data above are typical values, not to be construed as specifications. Users should confirm results by their own test.*

## Production Locations

- Terneuzen (The Netherlands)

## Suggested Applications

CARBON BLACK FEEDSTOCK's main application can be found in the production of carbon black used for tire reinforcement, as black pigment (e.g. for road markings) or conductive agent.

CARBON BLACK FEEDSTOCK may also be used as a source of:

- naphthalene (to produce phthalic anhydrides, insecticides and concrete plasticizers);
- biphenyl (to produce food preservatives, heat transfer fluids or used in various organic syntheses);
- fluorene or anthracene (to produce light emitting diodes (LED's), dyes or wood preservatives).

CARBON BLACK FEEDSTOCK may also be used as a blend component for the production of fuel oils such as bunker fuels.

## More Information

For more information about the aromatic products of Dow (i.e. Sales Specifications, (Material) Safety Data Sheets, Availability, Technical Services & Development, Regulatory Status and other information) please visit our website at:

[www.dowaromatics.com](http://www.dowaromatics.com)

### Customer Information Center:

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