

Carbon (CAS 7440-44-0) Market Research Report 2024

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Abstracts

Carbon (CAS 7440-44-0) Market Research Report 2024 presents comprehensive data on Carbon markets globally and regionally (Europe, Asia, North America etc.)

The report includes Carbon description, covers its application areas and related patterns. It overviews Carbon market, names Carbon producers and indicates its suppliers.

Besides, the report provides Carbon prices in regional markets.

In addition to the above the report determines Carbon consumers in the market.

BAC Reports offers its clients in-depth market research of chemical industry products on the global and regional markets (North & Latin America, Asia Pacific, European Union, Russia and CIS).

We can analyze the following elements for each chemical product in any country or region:

capacities and production

consumption volume and structure

market price trends

exports and imports

existing technologies

feedstock market condition

market news digest

market forecast.

Carbon (CAS 7440-44-0) Market Research Report 2024 can feature:

market condition and estimations, market forecast

chemical product ranges, trademarks, analogous products, application areas

regional and global producers, consumers and traders (including contact details).

Contents

1. CARBON (CAS 7440-44-0)

- 1.1. General information, synonyms
- 1.2. Composition, chemical structure
- 1.3. Safety information
- 1.4. Hazards identification
- 1.5. Handling and storage
- 1.6. Toxicological & ecological information
- 1.7. Transport information

2. CARBON APPLICATIONS

- 2.1. Carbon application spheres, downstream products

3. CARBON MANUFACTURING METHODS

4. CARBON PATENTS

- Abstract
- Description
- Summary of the invention
- Detailed description of the invention

5. CARBON MARKET WORLDWIDE

- 5.1. General Carbon market situation, trends
- 5.2. Manufacturers of Carbon
 - Europe
 - Asia
 - North America
 - Other regions
- 5.3. Carbon suppliers (importers, local distributors)
 - Europe
 - Asia
 - North America
 - Other regions

5.4. Carbon market forecast

6. CARBON MARKET PRICES

6.1. Carbon prices in Europe

6.2. Carbon prices in Asia

6.3. Carbon prices in North America

6.4. Carbon prices in other regions

7. CARBON END-USE SECTOR

7.1. Carbon market by application sphere

7.2. Carbon downstream markets trends and prospects

*Please note that Carbon (CAS 7440-44-0) Market Research Report 2024 is a half ready publication and contents are subject to change. It only requires updating with the help of new data that are constantly retrieved from Publisher's databases and other sources. This updating process takes 5-7 business days after order is placed. Thus, our clients always obtain a revised and updated version of each report. Please also note that we do not charge for such an updating procedure. BAC Reports has information for more than 25,000 different chemicals available but it is impossible to have all reports updated immediately. That is why it takes 5-7 days to update a report after an order is received.

About

Product Name: Carbon

Synonyms:

Acticarbon

Carbosieve

Charcoal

Graphite (synthetic)

Carbon activated

Active carbon

Activated carbon

Activated carbon

ACTIVATED CARBON BP

Acetylene Carbon Black

GLASSY CARBON

Activated charcoal

Carbon, activated

Charcoal, activated

CAS#:

7440-44-0

64365-11-3

Formula: CH_4

Molecular Weight: 16.04

Appearance: Odorless, tasteless black powder or grains.
Usage: A strong reducing agent and is used as such in purifying metals, in electrodes, electrical devices & steel.

Glassy carbon (also called vitreous carbon) is an advanced material of pure carbon combining glassy and ceramic properties with these of graphite; and has a molecular formula of CH_4 . It is stable under normal temperatures and pressures; melting at 3550 °C and boiling between 500 °C and 600 °C. Glassy carbon is incompatible with strong oxidizing agents like chlorates, bromates and nitrates, especially when heated; it is also incompatible with air, metals, unsaturated oils.

Glassy carbon was first observed in the mid-1950s by Bernard Redfern, the inventor, materials scientist and diamond technologist. Working in the laboratories of The Carborundum Company in Manchester, the UK, he discovered a resole resin that would, with special preparation, set without a catalyst. Using this phenolic resin, crucibles were produced.

Unlike graphite, glassy carbon has a fullerene-related microstructure, which leads to a great variety of unique material properties.

Thus, glassy carbon is very advantageous for many different applications in the chemical industry. Also, compared to ceramic and metallic materials, glassy carbon shows no embrittlement even at high temperatures (up to 3000°C).

Its non-wetting characteristics make glassy carbon the ideal approach for certain otherwise difficult-to-evaporate materials. For instance, it does not suffer from the annoying alloying problems when evaporating precious metals with tungsten boats.

Glassy carbon crucibles and boats are used for zone melting of semiconductor components, gallium arsenide synthesis, and monocrystal growth by the Bridgman or Czochralsky method. Glassy carbon is used for parts in ion implanting systems and electrodes for plasma etching systems due to its extreme resistance. The high X-ray transmission of glassy carbon is advantageous for the X-ray lithography. Glassy carbon wafers are used as substrate materials for X-ray masks.

Glassy carbon market is covered in the study Glassy Carbon (CAS 7440-44-0) Market Research Report 2012. The report encompasses proper description of the product,

unveils application areas, and briefly summarizes patents in the sphere. It overlooks glassy carbon market situation, names manufacturers, suppliers as well as users. The report also provides current glassy carbon prices in the market.

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