

# CARBON: BUILDING BLOCKS OF LIFE

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## INSIDE EPSILON CARBON

A leading manufacturer of coal tar chemicals, Epsilon Carbon is India's only backward-integrated company with a fully dedicated source of raw materials. Established in 2010, we have manufacturing units in the Indian states of Karnataka, Chhattisgarh and Odisha. Led by a committed, experienced team of industry professionals, Epsilon Carbon aims to be a global leader in the carbon and coal tar industry.

We currently produce coal tar derivatives such as graphite pitch, binder pitch, carbon black oil, anthracene oil, naphthalene, etc. Our high-quality products are manufactured to specifications and cater to the aluminium, carbon black, tyres, mechanical rubber goods, graphite, and specialty chemicals industries, among others.

We have expanded our premium product portfolio to include products like carbon black. Our new state-of-the-art 115,000 TPA backward integrated carbon black plant in Bellary, Karnataka, is the first step in our journey from being a coal tar derivatives company to being a global leader in the coal tar and carbon black industries. Our forward integration will continue to surge ahead when the carbon black facility's capacity expands to 300,000 TPA in the second phase.



### OUR VALUES



Innovation



Passion



Quality



Integrity



Collaboration



## **SHAPING A BETTER FUTURE – TOGETHER**

We are an ethical company that believes in human rights, fair trade practices and a neutral carbon footprint. We strive to adhere to prescribed environmental norms. In order to minimise our environmental impact, we maintain a low carbon footprint in our production process as we strive to improve energy efficiency, and to reduce water consumption and wastage. Effluents from our plants are being treated for recycling to ensure zero discharge. We have developed a green belt to minimise pollution and planted more than 40,000 saplings over 50 acres of land.

We endeavour to drive societal change by supporting activities such as education, skilling, employment, health, water conservation, women empowerment, etc., that facilitate the development and growth of communities in the geographies in which we operate. Guided by the expressed needs and development preferences of these communities, our interventions seek long-term and sustainable impact.

## **OUR PEOPLE, OUR STRENGTH**

Epsilon Carbon's strategy is shaped around the progress and well-being of our most important stakeholders. Our employees, vendors and customers are at the heart of everything that we do, and our relationship with them is based on a foundation of integrity, transparency and trust. We ensure that our solutions are designed to meet the needs of the market while also complying with global safety standards for our employees.

Robust customer support coupled with a backward-integrated supply chain gives us an edge over our competitors in delivering products even during the most uncertain times. This helps us provide value to our customers by ensuring uninterrupted supplies and keeps our employees engaged in what they do the best — delivery of top-quality solutions with utmost care.



## MARKETS WE SERVE

Our high-quality carbon products serve the needs of global industries of the future. Our coal tar derivatives and carbon black find use in a wide range of manufactured goods such as tyres, aluminium, graphite electrodes, construction chemicals, dye intermediates, etc.



Aluminium



Carbon Black



Specialty  
Chemicals



Graphite



Wood  
Preservatives



Tyres



Mechanical  
Rubber Goods



Pigments



Masterbatches

## CERTIFICATIONS

Epsilon Carbon's product portfolio serves a wide range of global industries. We take the utmost care in ensuring that these products meet stringent quality requirements and regulatory compliance. Our processes and systems are in place to carefully consider the impact of our products on the health and safety of all our stakeholders and the communities in which we operate. Each of our certifications is a validation of our commitment to provide value to our customers and make positive contributions towards a sustainable planet.

We are being certified by leading agencies in the chemical industry for the following:

- **ISO 9001:2015 – QMS**
- **ISO 14001:2015 – EMS**
- **ISO 45001:2018 – OH&SMS**
- **IATF 16949:2016**
- **REACH Compliance**
- **RC 14001**
- **Ecovadis Sustainability rating 2022 – Silver**
- **ISO 50001:2018 (Energy Management System)**
- **ISO 27001: 2013 (Information Security Management System)**
- **SA 8000 - Under Implementation**
- **ISO 28000: 2022 – Supply Chain Security Management System**
- **ISO/IEC 17025:2017**



## COAL TAR DERIVATIVES

Coal tar is formed when coking coal is processed to form metallurgical coke in a recovery-type coke oven plant. It accounts for 3-4 per cent of coke produced.

Epsilon Carbon distills coal tar to manufacture a broad range of high-quality products that cater to key industries such as aluminium, graphite, carbon black and specialty chemicals. The key product of the distillation of coal tar is coal tar pitch. This is further processed to impart desired chemical and physical properties to form binder pitch, impregnated pitch, etc.



## OUR PRODUCTS

A wide range of high-quality carbon products that cater to the industries of the future, produced through environment-friendly processes and technology.

- **Binder pitch** – Primarily used to manufacture pre-baked and Soderberg anodes in the aluminium industry, and electrodes in the graphite industry.
- **Impregnated pitch** – Used to 'impregnate' graphite electrodes to decrease porosity, and increase strength, electrical conductivity & durability.
- **Carbon black oil/anthracene oil**–Used as feedstock by manufacturers of carbon black, who prefer its higher B.M.C.I and low sulphur.
- **Wash oil**– Used to extract benzene from coke oven gas in the steel industry, as a wood preservative, and in the manufacture of anti-corrosion oil, dispersants and water reducing agents.
- **Creosote oil**–Used in wood preservatives, phenol-based resins, disinfectants, fuels, etc.
- **Naphthalene**–Naphthalene is used in the dyes, chemicals and pharmaceutical industries, and as a precursor in the manufacture of many other chemicals.
- **Phenol oil**–Is a key product in the commercial development of large-tonnage engineering plastics such as polyamide, polycarbonate and a wide range of phenolics and epoxy acids.



Know more  
about our  
coal tar derivative  
products





## **CARBON BLACK**

Carbon black enhances the physical, electrical and optical properties of a wide range of materials. Epsilon Carbon brings its vast experience in manufacturing coal tar derivatives and forward integration to produce hard and soft grades of carbon black. These will cater to both tyre and non-tyre applications in domestic and international markets. We also offer a range of carbon blacks that can be customised to specifications.

Our new integrated carbon black facility, with a 115,000 TPA capacity, helps us not only meet global standards for carbon black but exceed them. Our expanding product portfolio will help us consolidate our position in the domestic market and build a robust customer base in the global market.

## **OUR PRODUCTS**

### **SOFT BLACK**

Widely used in the sidewalls and inner liners of automobile tyres, and in other automobile parts such as sealing systems, hoses and anti-vibration parts. Also used in general rubber goods such as hoses, belts, gaskets, mats and seals.

#### **Grades**

- N550** – Imparts medium abrasion resistance, high tensile strength, high resilience, low shrinkage and die swell. Used in tyre carcasses, cushion gums, tubing, cable jacketing, plastic conduit compounds, etc., and in extruded goods that require excellent dimensional stability.
- N650** – N650's high structure and medium reinforcement gives low die swell, smooth extrusions, enables easy processing and economic compounding. It is used in tyre carcasses, sidewalls, cable jackets, inner tubes and hoses.
- N660** – An excellent all-purpose black, used in tyre carcasses, sidewalls and mechanical rubber goods. With moderately reinforcing properties, N660 provides low heat generation and smooth processing of all elastomers.
- N762** – A moderately reinforcing grade, N762 has excellent dynamic properties such as high resilience, low hysteresis and allows high loadings. Used in extruded goods, belts and hoses, moulded goods and plastic colour concentrates.
- N774** – A low surface area, low structure black that has high resilience and bending resistance. Used in belts, hoses, hose covers, inner liner, tubes and profiles.
- Rho 5** – Carbon black has a very high structure and low surface area. It combines good cleanliness with a unique morphology and is especially developed for extruded rubber applications like weather stripping, hoses, and profiles.



## **HARD BLACK**

Hard grade carbon black is commonly used as the most cost-effective rubber reinforcing agent in tyre components such as treads. It imparts dynamic hardness to rubber, provides high wear resistance, high tear resistance, and high resistance to rupture.

### **Grades**

- N134** – With a very fine particle size, low micro-porosity and high surface activity, it is an excellent choice for great treadwear and tear resistance for tread compounds.
- N220** – Its high tensile strength makes it the best choice for tread compounds of truck and car tyres. High abrasion properties make it the perfect choice for high-strength conveyor belts, industrial rubber articles, etc.
- N234** – An improved process high structure carbon black, N234 has excellent wear and extrusion properties. Used in all elastomers, especially SBR/BR blends for tread rubbers.
- N326** – Used in mechanical rubber goods, tyre carcasses, belts and treads of off-road tyres, due to its low structure, high reinforcement properties, high tensile strength, tear and chipping resistance.
- N330** – Provides good abrasion resistance, high resilience, easy processing, good tensile strength and tear resistance. Suited for a wide range of applications including tyres and mechanical rubber goods.
- N339** – Has excellent wear and extrusion properties which are characteristics of improved process high structure carbon blacks. It is suited to passenger car tyre treads, rubber and mechanical rubber goods.
- N375** – Mainly used in tread compounds of passenger car, truck and cross-country application tyres. An excellent choice for coating compounds of conveyor belts.
- N115** – Super Abrasion Furnace grade (SAF) having high surface area and medium structure offers very good tensile strength, as well as high tear and abrasion resistance.
- N121** – is a Super Abrasion Furnace (SAF) grade with high structure and high surface area offers high reinforcement in rubber products.



Know more  
about our  
carbon black  
products



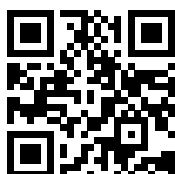
## HEAD OFFICE

Epsilon Carbon Private Limited  
Upadrastha House  
48, Dr. V. B. Gandhi Marg  
Fort, Mumbai - 400023  
INDIA  
Contact number: +91-22-22712800

**Website:** [www.epsiloncarbon.com](http://www.epsiloncarbon.com)

**Product enquiry:** [enquiry@epsiloncarbon.com](mailto:enquiry@epsiloncarbon.com)

**Customised product development:**  
[custdev@epsiloncarbon.com](mailto:custdev@epsiloncarbon.com)



Know more  
about us

## OUR PLANTS

### **Vijaynagar**

Sultanpur Road  
Musinayakanahalli  
Sandur Taluk, Bellary  
Karnataka - 583123  
INDIA

### **Sambalpur**

At-Ghenupali, PO Badsahir  
Via-Goudpali, Sambalpur  
Odisha - 768112  
INDIA