

LEADING
THE FUTURE OF STEEL:

CUSTOMIZED CARBON SOLUTIONS FOR EVERY NEED

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We would like to introduce ourselves as a leading supplier of coke based carburizers in India. Our state-of-the-art manufacturing facility is fully equipped to cater to the extensive requirements of our customers. We are committed to deliver ordered quantities within a given time frame. With a completely segregated manufacturing facility catering to a portfolio of products differentiates us from our competitors. With "All in one" approach has helped us to achieve new quality paradigms.

The changing manufacturing scenario and support from the Indian government has put immense focus on "Make in India" products. We indigenously design products so as to meet the customers demand. Our Research & Development team works day in and day out to meet any specific requirements. Our effort is to reduce the dependence on imports and strengthen the Indian economy. The Chinese dominance on Indian markets with its autocratic policies has further strengthened our resolve to manufacture locally . We need to reduce the dependence on our adversaries so as to stabilize our growth trajectories.

It was a challenge for us to develop products for various applications of steel melting. Our team meticulously studied the area of application & steel chemistry before designing the best suitable products for each application. With an inherent Research & Development facility we are able to customize products as per requirement of the customer. Our product portfolio as below caters to both primary and secondary steel melting.

- Graphitized carbon raisers (Mono-One)
- Calcined petroleum coke (Mono-Carb)
- Anthracite coal (Mono-Coal)
- Calcined anthracite coal (Mono-93)
- Hardcoke (Mono-Hco)
- Metallurgical coke (Mono-Met)
- Carbon cube blocks (Mono-60B)
- Coke breeze (Mono-MB)

With a highly motivated team we are able to achieve the required quality parameters and delivery satisfaction for our customers. We look forward for an opportunity to serve our valued customers with our product offerings.

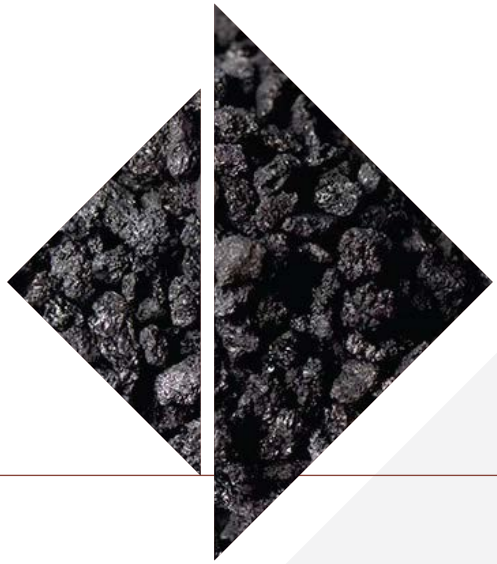
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Mono-One

Mono-One is an excellent graphitized carburizer; it is specially manufactured to maintain low-sulphur & low- nitrogen percent without compromising on the carbon percentage. The low nitrogen content in our carburizer improves the permeability of the carbon pores and thereby improving the rapid melting of the carburizer in the molten steel. Graphitized carburizers are mainly used in manufacturing of secondary steel. The low percentage of nitrogen makes Mono-One, one of the best carburizer for uniform casting.

- **Low content of Nitrogen (N2) helps in reducing the casting porosity.**
- **Helps to balance the hardness to avoid brittleness and improve weldability.**

Particular	Parameters (%)
Fixed Carbon	99% Min
Ash	0.5% Max
Volatile Matter	0.5% Max
Sulphur	0.05% Max
Nitrogen	65 ppm Max
Moisture	0.5% Max
SIZE: 0-6 mm	90% Min



Mono-Carb

Mono-Carb is best suited for steel mills which help to improve the carbon content during heat preparation. It being rich in Carbon, low in (VM), Ash and Moisture; helps to improve the carbon penetration in the process. Mono-Carb is manufactured by calcining high quality coke at 1300℃, which is further converted to calcined coke. This calcined coke is further treated in high temperature furnace to reduce the volatile matter improving the purity of the material.

Coke based carburizers are used in mini steel where steel scrap is used in abundance. The high usage of scrap reduces the adverse effect of sulphur and phosphorus in the final product. Mono-Carb is manufactured as per the requirement of sulphur content in the final product. If the steel charge mix has high sulphur then low sulphur product is suggested and vice versa. We supply products with sulphur ranging from 0.8% to 5.0%.

Particular	Parameters (%)
Fixed Carbon	98% Min
Ash	0.5% Max
Volatile Matter	0.5% Max
Sulphur	As required
Moisture	0.5% Max
SIZE: 1-4 mm	90% Min



Mono Coal:

Anthracite is an imported coal which is usually high in carbon and low in sulphur, it is extensively used in various steel melting applications. It is low in ash which makes it a viable option as a feedstock for power plants. We use anthracite as one of our raw materials for manufacturing carburizers. We process huge quantities of anthracite and offer them to our customers as per their specific requirements. Anthracite is available in odd sizes which we dry, screen and pack before dispatches. We offer all qualities of anthracite, in any sizes with packing as per customers orders.

Particular	Parameters (%)
Fixed Carbon	92% Max
Ash	5% Max
Volatile Matter	3% Max
Sulphur	1% Max
Moisture	5% Max
Size	As per requirement



Mono-93

Mono-93 is an excellent coal based carburizer; with its inherent properties it helps to improve the carbon in steel melting. It can be used during initial heat preparation as a carburizer or as a conditioner before the final heat tapping. Being low in Sulphur, Moisture and VM, It helps to reduce the emission of harmful gasses. Mono-93 is an apt mix of anthracite coal and coke which is calcined at high temperatures to reduce moisture, volatile matter and other impurities to bare minimum. Mono-93 is preferred over other carburizers due to the reasons stated below:-

- Cost effective as compared to Calcined petroleum coke (CPC)
- Evenly sized without any traces of dust, improves yield and quality of steel.
- Environmentally cleaner than other carbon additives.
- Having low sulphur content, it produces virtually no smoke or particulate emissions.
- Prices are more or less not market driven due to ample availability of raw material.

Particular	Parameters (%)
Fixed Carbon	93% Min
Ash	5% Max
Volatile Matter	1% Max
Sulfur	0.6 % Max
Moisture	2% Max
SIZE: 1-4 mm	95%



Mono-Hco:

Hard coke is required for metallurgical and chemical industries. It has properties to attain uniform heating with high temperature requirements. It is also used to smelt iron ore and other iron bearing materials in blast furnaces, acting both as a source of heat and as a chemical reducing agent to produce pig iron or hot metal. Hardcoke is used for manufacturing Ferro alloys, Pig iron and Mild steel casting in foundries. The versatile properties of hard coke make it a suitable product for various applications.

Particular	Parameters (%)
Fixed Carbon	60-80%
Ash	15-25% Max
Volatile Matter	2% Max
Sulfur	1% Max
Phosphorus	0.05% Max
Moisture	5% Max
Size	20-80 mm



Mono Met:

Metallurgical coal is used as carburizer for steel melting; it is a grounded version of hard coke. Metallurgical coal is finer in size and used where the main impetus is on the cost of carburizer. Mono-Met is cost effective as compared to other products and has specific application areas. We do offer this in quantities to mini steel plants as slag reducers and carbon raisers.

Particular	Parameters (%)
Fixed Carbon	60-% Max
Ash	20% Min
Volatile Matter	2% Max
Sulfur	1% Max
Moisture	2% Max
Size	0-3 mm

Mono -60B:

We have started manufacturing carbon cube bricks, which is an excellent carburizer for mini steel plants. It is a brick shaped carbon block which is used during Initial heat preparation in small steel melting shops. The compact size increases the carbon content per inch which is released during heat preparation by acting as a catalyst.

Particular	Parameters (%)
Fixed Carbon	60% min
Ash	25% Max
Volatile Matter	2% Max
Sulfur	1% Max
Size	20-80 mm

Mono-MB:

The term refers to the fine sizes of coke, usually less than one-half inch, that are recovered from coke plants. We manufacture high carbon coke for pallet & sinter plants; Our MB-coke has good sintering properties which react with iron ore fines enhancing the efficiency during calcination. We can deliver any required quantities per annum. Currently we have capacities to supply 25000 M.T of MB coke per annum.

Particular	Parameters (%)
Fixed Carbon	88% min
Ash	2% Max
Volatile Matter	9% Max
Moisture	10% Max
Size	0-50 mm



Areas of Application:

Iron Foundries: Iron Foundries use carburizers in the Cupola to melt iron for casting it into various shapes as per applications. The iron foundries in India are spread out throughout the country.

Steel Foundries: Steel foundries use carburizers to provide additional carbon content to the molten metal depending upon the specification of the casting.

Non ferrous metal castings: Foundries that make castings of copper and brass use coke for melting the metal.

Secondary steel manufacturers: 'Mini' steel plants that produce steel from recycled steel scrap and sponge irons require coke.

Ferro Alloy Plants: Ferro alloy producers require coke for their production. Coke is used as a reducing agent in this process.

Pig iron Producers: Production of pig iron requires coke. In India small pig iron producers require coke and buy the coke from the open market. Typically larger steel producers have their own plants and therefore, are not in the market to buy coke.

Rise to the Challenge:
Innovate Locally, Succeed Globally.
Together, we build a stronger, self-reliant
future, transforming obstacles into
opportunities for growth."

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Railway Colony Road, NH-49,
Champa -495671 (C.G.)
+91-8349001603
Email: abhishek@arvindceramics.com
www.arvindceramics.com