

Metallurgical Coke

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About Metallurgical Coke:

- It is a carbonaceous material produced by **heating bituminous coal in the absence of air**.
- It is produced by heating coal in coke ovens at high temperatures (around 1,000 to 1,200 degrees Celsius).
- It is used as a fuel and reducing agent in the **production of iron and steel**.
- **Properties**
 - It has an **open, porous structure** and may appear glassy in some varieties.
 - It has also a low volatile content or rather low waste product content due to the heat treatment process received.
 - It has a high **carbon content, low ash content, and high strength**.
 - Its porous structure allows for good gas flow and provides structural support in the blast furnace.
- However, the “ash” constituents, that were part of the original bituminous coal feedstock, remain intact in the finished product.

- Met Coke is available in a wide range of sizes; from fine powder (30 mm) to basketball-sized lumps (20 cm).
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Q1) What is Bituminous coal?

Bituminous coal is a type of coal that falls in the middle of the coal rank spectrum in terms of carbon content and energy value. It is a dense, black or dark-brown coal that is widely used as a fuel for electricity generation, industrial processes, and heating.

Source: India starts safeguard probe against sudden, sharp jump in met coke imports

Source: <https://vajiramandravi.com/current-affairs/metallurgical-coke/>

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