

COAL INDIA LIMITED - Products & Services

COKING COAL :

These coals, when heated in the absence of air, form coherent beads, free from volatiles, with strong and porous mass, called coke.

- These have coking properties
- Mainly used in steel making and metallurgical industries
- Also used for hard coke manufacturing

SEMI COKING COAL :

These coals, when heated in the absence of air, form coherent beads not strong enough to be directly fed into the blast furnace. Such coals are blended with coking coal in adequate proportion to make coke.

- These have comparatively less coking properties than coking coal
- Mainly used as blend-able coal in steel making, merchant coke manufacturing and other metallurgical industries

NLW COKING COAL :

This coal is not used in metallurgical industries. Because of higher ash content, this coal is not acceptable for washing in washeries. This coal is used for power utilities and non-core sector consumers.

NON-COKING COAL :

These are coals without coking properties.

- Mainly used as thermal grade coal for power generation
- Also used for cement, fertilizer, glass, ceramic, paper, chemical and brick manufacturing, and for other heating purposes

WASHED AND BENEFICIATED COAL:

These coals have undergone the process of coal washing or coal beneficiation, resulting in value addition of coal due to reduction in ash percentage.

- Used in manufacturing of hard coke for steel making
- Beneficiated and washed non-coking coal is used mainly for power generation
- Beneficiated non-coking coal is used by cement, sponge iron and other industrial plants

MIDDINGS :

Middlings are by-products of the three stage coal washing / beneficiation process, as a fraction of feed raw coal.

- Used for power generation
- Also used by domestic fuel plants, brick manufacturing units, cement plants, industrial plants, etc.

REJECTS :

Rejects are the products of coal beneficiation process after separation of cleans and / or middlings, as a fraction of feed raw coal.

- Used for Fluidized Bed Combustion (FBC) Boilers for power generation, road repairs, briquette (domestic fuel) making, land filling, etc.

CIL COKE / LTC COKE :

CIL Coke / LTC Coke is a smokeless, environment friendly product of the Dankuni Coal Complex, obtained through low temperature carbonisation.

- Used in furnaces and kilns of industrial units
- Also used as domestic fuel by halwais, hotels, etc.

COAL FINES / COKE FINES :

These are the screened fractions of feed raw coal and LTC coke / CIL Coke respectively, obtained from the Dankuni Coal Complex and other coke oven plants.

- Used in industrial furnaces as well as for domestic purposes

TAR / HEAVY OIL / LIGHT OIL / SOFT PITCH :

These are products from Dankuni Coal Complex using low temperature carbonisation of non-coking coal in vertical retorts.

- Used in furnaces and boilers of industrial plants as well as power houses, oil, dye, pharmaceutical industries, etc.

The table below sets forth the various gross calorific value (GCV) based bands of non coking coal produced by us

Sl. No	GCV Bands
	(Kcal/Kg)
1	Exceeding 7000
2	Exceeding 6700 and not exceeding 7000
3	Exceeding 6400 and not exceeding 6700
4	Exceeding 6100 and not exceeding 6400
5	Exceeding 5800 and not exceeding 6100
6	Exceeding 5500 and not exceeding 5800
7	Exceeding 5200 and not exceeding 5500
8	Exceeding 4900 and not exceeding 5200
9	Exceeding 4600 and not exceeding 4900
10	Exceeding 4300 and not exceeding 4600
11	Exceeding 4000 and not exceeding 4300
12	Exceeding 3700 and not exceeding 4000
13	Exceeding 3400 and not exceeding 3700
14	Exceeding 3100 and not exceeding 3400
15	Exceeding 2800 and not exceeding 3100
16	Exceeding 2500 and not exceeding 2800
17	Exceeding 2200 and not exceeding 2500

The table below sets forth the various grades of coking coal:

Grade	Ash Content
Steel Grade I ("ST I")	Ash content < 15%
Steel Grade II ("ST II")	15% < = Ash content < 18%
Washery Grade I ("W I")	18% < = Ash content < 21%
Washery Grade II ("W II")	21% < = Ash content < 24%
Washery Grade III ("W III")	24% < = Ash content < 28%
Washery Grade IV ("W IV")	28% < = Ash content < 35%

The table below describes the grades of semi-coking coal:

Grade	Ash + Moisture Content
Semi coking grade I ("SC I")	Ash + moisture content < 19%
Semi coking grade II ("SC II")	19% < = Ash + moisture content < 24%