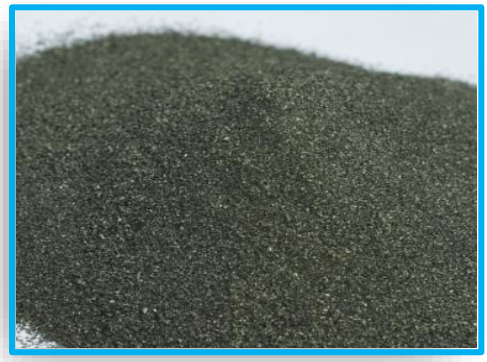
Impressed Current CP

Calcined Petroleum Coke Backfill



High quality calcined petroleum coke breeze with small spherical grains is designed for anode canister backfill and semi-deep underground impressed current CP system.

Calcined petroleum coke with small spherical grains is suitable for both semi-deep and deep well applications as it enables gas to escape and with a surfactant addition it can be mixed with water to create a slurry which can then be pumped into the borehole. With a high bulk density, the petroleum coke sinks to the bottom of the hole.

Purposes of Backfill

- Reduce the ground-bed resistance by increasing the effective size of the anode.
- Extend the anode surface area, thus increasing the amount of current the anode can discharge.
- Reduce consumption of the anode since the carbon becomes the part of the anode consumed before the anode itself.
- While the main purpose of coke breeze backfill is to reduce the anode-to-soil circuit resistance and to increase anode service life, it also helps to eliminate gas blockage and drying tendencies.

Specification

Chemicals

Fixed Carbon:	Greater than 98.30%
Sulphur:	0.55% max.
Moisture:	0.05% max.
Ash:	0.65% max.

Physical Properties

Grain size	1 mm max.
Bulk density:	900 Kg/m^3 (56 lb/ft^3)
Electrical resistivity	0.1 ohm-cm max. (at 100 N/cm2 or 150 psi)