

COKE BACKFILL

GENERAL

To decrease ground bed resistance, increase current distribution and uniform anode consumption, the low – resistance backfill shall be used. Coal Coke Breeze and calcined petroleum coke are two common type of backfill.

Utilizing coke breeze as a backfill material for impressed current ground anodes, specially surface and dry ground bed are mandatory in the most applications. Also canister anodes are backfilled with coke breeze.

CHEMICAL COMPOSITION (IPS-M-TP-750/2)

Element	Composition (wt %)		
	Type I (Coal Coke Breeze)	Type II (Petroleum Coke Breeze)	Type III (Special Petroleum Coke Breeze)
Carbon content	80	90	95
Moisture content (max.)	5	5	1
Ash content (max.)	15	5	3
Total sulphur content (max.)	1	5	1
Volatile matter content (max.)	5	5	1

TECHNICAL SPECIFICATION

Coke Type	Bulk Density (Kg/m ³)	Resistivity (Ω -Cm)	Packing
<input type="checkbox"/> Type I	650 – 800	50 – 100	<input type="checkbox"/> 25 ± 10% Kg Packet
<input type="checkbox"/> Type II	700 – 1100		<input type="checkbox"/> 50 ± 10% Kg Packet
<input type="checkbox"/> Type III	1050 - 1200		<input type="checkbox"/> Bulk (Unpacked)