

BAC BACKFILL

1.7.1

STANDARD BACKFILL

Our standard range is available as follows:

- 1) Type 90, a metallurgical coke breeze suitable for standard horizontal or vertical Groundbeds (not suitable for boreholes).
- 2) Type 90L as type 90 but with added lime
- 3) Type 99, a petroleum coke suitable for deep bore holes where slurry pumping may be necessary.
- 4) Type 99W, similar to type 99 but includes a wetting agent.

All the products are supplied in 25kg multiwall paper sacks, packed 1000kg per pallet, shrink cover wrapped if required.

TYPICAL ANALYSIS

	TYPE 90	TYPE 90L	TYPE 99	TYPE 99W
Ash:	8 %	8 %	0.2 %	0.2 %
Volatiles:	1 %	1 %	0.4 %	0.4 %
Moisture:	10 %	10 %	0.3 %	0.5 %
Fixed Carbon:	90 % (on a dry basis)	90 % (on a dry basis)	99.1 %	98.9 %
Sulphur:	1.2 %	1.2 %	0.9 %	0.9 %
Lime:	-	5 %	-	-
Bulk Density:	500 to 600 kg/m ³	500 to 600 kg/m ³	850 to 1000 kg/m ³	840 to 1000 kg/m ³
Resistivity:	35 to 55 ohm.cm	35 to 55 ohm.cm	0.15 ohm.cm	0.15 ohm.cm

SPECIALIST BACKFILL

The performance of impressed current anodes is greatly affected by the choice of selective backfill.

An ideal backfill should have:

- ◆ Low resistivity to reduce anode to earth resistance.
- ◆ High porosity to allow gases produced at the surface of the anode to escape.
- ◆ Low density to provide high permeability with cost effectiveness.
- ◆ In addition, the backfill should flow easily, and be of high purity.

The BAC SPECIALIST ranges of carbonaceous backfills satisfy all these criteria.

We supply a superior quality backfill, which is dried and screened for increased performance. The following types are available:



TYPICAL ANALYSIS

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	TYPE DBW	TYPE SP	TYPE DBLS	TYPE DBS1	TYPE DB
Common Equivalent	-	SWK	SC3	SC3(DW3)	SC3(DW3)
Ash	0.2%	12%	0.2%	0.6%	0.15%
Volatiles	0.4%	1.5%	0.4%	0.25%	0.25%
Moisture	0.5%	10%	0.3%	0.3%	0.3%
Fixed carbon	98.9%	86.5%	99.1%	98.5%	99.3%
Sulphur	0.9%	1.2%	1%	3.5%	0.5%
Particle Size	0.076-1mm	0.25-1mm (dust free)	0.25-1mm (dust free)	0.25-1mm (dust free)	1-0.5mm
Resistivity at 150PSI	0.1 ohm cm	0.15 ohm cm	0.1 ohm cm	0.15 ohm cm	0.2 ohm cm
Bulk Density Per m ³	850 kilos	700 kilos	950 kilos	970 kilos	940 kilos

Type DBW Main specialist backfill offered

Type SP We can also supply screened and dried backfill similar to the above but with an increased sulphur content (3.5 %) which makes the backfill more cost effective without impinging significantly on performance.

Type DBLS This material includes an addition of a low resistivity carbon lubricant and a surfactant to facilitate pumping and to ensure current discharge is at interface of the backfill, promoting longer service life.

Type DBS1 This material, if required, can also include an addition of a low resistivity carbon lubricant and a surfactant to facilitate pumping and to ensure current discharge at the interface of the backfill, promoting longer system life.

Type DB This material can also include an addition of a low resistivity carbon lubricant and a surfactant.

TYPICAL ANALYSIS (continued)**1.7.1**

	TYPE DBL	TYPE DBPP	TYPE SB	TYPE AB
Common Equivalent	SC2 (DW2)	SC1 (DW1)	SW	SWK
Ash	0.2%	0.2%	0.2%	0.2%
Volatiles	0.4%	0.4%	0.4%	0.4%
Moisture	0.3%	0.3%	0.3%	0.3%
Fixed carbon	99.1%	99.1%	99.1%	99.1%
Sulphur	1%	1%	1%	1%
Particle Size	0.25-1mm (dust free)	0.25-1mm (dust free)	0.25-9mm	0-9mm
Resistivity at 150PSI	0.1 ohm cm	0.1 ohm cm	0.1 ohm cm	0.1 ohm cm
Bulk Density Per m ³	950 kilos	950 kilos	750 kilos	800 kilos

Type DBL This grade includes an addition of a low resistivity lubricant assisting in current discharge at the interface of the backfill promoting longer system life.

Type DBP Whilst this grade may be placed in deep bore holes, it is preferable to use grade DBLS or DBL with the additions to facilitate pumping.

Type SB This material is ideal for impressed current surface systems

Type AB This material can also include an addition of a low resistivity carbon lubricant and a surfactant