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DATA SHEET

Anthracite Based Virgin Granular Activated Carbon

Grade: 1 mm x 2.4 mm (8 x 18 US Mesh)

Use: Removal of Organic Contaminants, Colour, Odour, Taste & Chlorine from liquids – also used in Chemical & Pharmaceutical processes, various forms of Gases including Radioactive Gases



Product Key Features:

- * Manufactured from high rank South African Anthracite with fewest impurities – black, porous granules of irregular shape
- * High structural integrity, resulting in low attrition loss, long bed life, lowest operating cost & high backwash efficiency
- * Most suitable for thermal or chemical regeneration
- * Compliant with SANS 521915-1/EN 12915-1 (Refer Note 1 below)

Physical Properties:

Colour	Black
Dry Bulk Density	0.8 kg/m ³
Effective size in mm (approx.)	D10 1.48 mm D60 2.10 mm
Uniformity coefficient.....D60 / D10	1.41
Bond Work Index	≥ 20-22 kWh/mt
Iodine Number (ASTM D4607)	900 - 950
Fixed Carbon	80%
Specific Gravity	1.3 kg/m ³
Total Moisture	2.2%
Wettability	99.5%
Ash (Dry basis)	< 15%
Volatile Matter (Dry basis)	3.6%
Ball Pan Hardness	>90%
Water Extractables	Compliant – refer Note 1 below – Tested at pH 6.5 & 8.5
Recommended Bed Expansion/Backwash Rate	30-40%/± 45 m/h
Recommended Hydraulic Loading	Generally 140 – 200 l/min/m ³ , depending on water characteristics
	Chlorine removal occurs almost instantaneously

Activated Carbon General Notes:

- For products used for the treatment of water intended for human consumption, this Virgin Granular Activated Carbon is SANS 52915-1/EN 12915-1 compliant, subject to the following treatment prior to use:
 - Load fresh medium into vessel, backwash the medium with potable water for 5 minutes, rinse for 5 minutes, fill vessel with water, soak for 24 hours, drain vessel & rinse with 6 bed volumes (or 5 minutes) – ready for use.
Notes: 1.1.1 This procedure is required for compliance with substances of public health concern.
1.1.2 All Activated Carbon products must comply with limits of toxic substance release.
 - Material used in small vessels or cartridge housings can be supplied pre-treated & ready for use.
- Prior filtration of suspended solids will prolong operating cycles & minimize backwash requirements.
- African Pegmatite's Activated Carbon products' superior physical characteristics provide the basis for the highest purity, mechanical strength & durability.
- Strict quality control measures including batch testing ensure consistent high quality of products.

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