

# GRANULAR ACTIVATED CARBON

**GRADE : VS 45**

**USS MESH SIZE : 8 x 30**

| STANDARD SPECIFICATION |       |                      |            |
|------------------------|-------|----------------------|------------|
| PARAMETER              | UNIT  | VALUE                | METHOD     |
| Type                   |       | <b>COCONUT SHELL</b> |            |
| CTC                    | % min | 45                   | ASTM D3467 |
| Moisture as packed     | % max | 5                    | ASTM D2867 |
| Mesh size US sieve :-  |       |                      | ASTM D2862 |
| +8 (2.36mm)            | % max | 5                    |            |
| 8 x 30 (2.36 - 0.60mm) |       | Balance              |            |
| -30 (0.60mm)           | % max | 5                    |            |

| TYPICAL PROPERTIES    |                                 |            |            |
|-----------------------|---------------------------------|------------|------------|
| PARAMETER             | UNIT                            | VALUE      | METHOD     |
| Hardness              | % min                           | 98         | ASTM D3802 |
| Bulk Density          | g cm <sup>-3</sup>              | 0.48-0.54  | ASTM D2854 |
| Density (Backwashed)  | g cm <sup>-3</sup>              |            |            |
| pH aqueous extract    |                                 | 9.5 - 11.5 | ASTM D3838 |
| Ash                   | % max                           | 5          | ASTM D2866 |
| Iodine number         | mg g <sup>-1</sup>              | 950        | ASTM D4607 |
| Surface area          | m <sup>2</sup> g <sup>-1</sup>  | 1050       | BET N2     |
| Pore volume           | cm <sup>3</sup> g <sup>-1</sup> |            |            |
| Pore size distrib.    |                                 |            |            |
| Micropores (<2 nm)    | cm <sup>3</sup> g <sup>-1</sup> |            |            |
| Mesopores (2 - 50 nm) | cm <sup>3</sup> g <sup>-1</sup> |            |            |
| Macropores (>50 nm)   | cm <sup>3</sup> g <sup>-1</sup> |            |            |
| Dechlor'n 1/2 length  | cm                              |            | DIN 19603  |