

# Activated Carbon Data

## Grade : RT5 8 x 16 US



A granular activated carbon manufactured from specially selected grades of coconut shells at our production facility in Sri Lanka.

The material is manufactured under stringently controlled conditions by steam activation, to produce a porous adsorbent with a highly developed internal surface area.

- Versatile multi-phase adsorbent
- Optimum adsorption kinetics
- Excellent product hardness
- Highly developed pore structure
- Supplied to BS EN ISO 9002:1994

### Standard Specification:

Parameter	Unit	Value	Method
Type		coconut shell	
CTC	% min	45	ASTM D3467
Moisture as packed	% max	5	ASTM D2867
Mesh size US sieve:			ASTM D2862
+ 8 (2.36 mm)	% max	5	
8 x 16 (2.36-1.18 mm)		balance	
- 16 (1.18 mm)	% max	5	
- 18 (1.00 mm)	% max	1	

### Typical Properties:

Parameter	Unit	Value	Method
Hardness	%	99	ASTM D3802
Bulk density	g cm <sup>-3</sup>	0.51	ASTM D2854
pH aqueous extract		10	ASTM D3838
Ignition temperature	°C	350	ASTM D3466
Ash	%	2	ASTM D2866
Iodine number	mg g <sup>-1</sup>	950	ASTM D4607
Surface area	m <sup>2</sup> g <sup>-1</sup>	1 000	BET N <sub>2</sub>
Pore volume	cm <sup>3</sup> g <sup>-1</sup>	0.58	
Pore size distribution:			
micropores (r<1nm)	cm <sup>3</sup> g <sup>-1</sup>	0.33	N <sub>2</sub> Isotherm
mesopores (r=1-25nm)	cm <sup>3</sup> g <sup>-1</sup>	0.10	N <sub>2</sub> Isotherm
macropores (r>25nm)	cm <sup>3</sup> g <sup>-1</sup>	0.15	Hg Porosimetry