

Nikom Carbon Technology Sdn. Bhd. (691210-M) was incorporated in Malaysia in 2005 for the production and export of steamed activated carbon. In general, carbonaceous materials such as coconut shells, oil palm shells and coal used in the production of activated carbon. Nikom Carbon Technology Sdn. Bhd. utilises the well-established coconut shells and oil palm shells charcoal which have the advantage of hardness and resistance to attrition.

ACTIVATED CARBON FROM PALM SHELL AND COCONUT SHELL

Activated carbon is an adsorbent available in black granules, pellets, powder or spheres which has generally been proven to have superior absorptive capacity in liquid and vapour phase applications. It can be used for purification of air, gas, liquid and in recovery of precious metals from ores.

Activated carbon made from coconut shells or oil palm shells has an extensive network of highly developed micro structures thus offering the highest surface area of any product known to man.



HI-TECH PROCESS & QUALITY CONTROL



Nikom Carbon Technology Sdn. Bhd. manufacturing plant is a specially built plant, using the best available technical innovation in steam activation by rotary system.

Our activated carbon is manufactured from good quality processed coconut shell charcoal or oil palm shell charcoal. Our strict quality control and laboratory test begin from carbonisation stage to finished product, thus ensuring the uniformity and consistency of our quality.

Samples of activated carbon are constantly sent to our laboratory for quality control tests in accordance to the American Standards and Testing Materials (ASTM). We are capable of producing high quality activated carbon to buyers' specifications.

OUR BRAND :

Nikom[®]



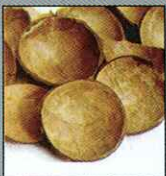
PRODUCT SPECIFICATION

Our common grades of Coconut Shell Activated Carbon are as follows :-

Product Code	Method	NCTG40	NCTG45	NCTG50	NCTG55	NCTG60	NCTG65	NCTG70
Base Material	Coconut Shell Charcoal							
Particular Shape	Granular							
Bulk Density (g/ml)	ASTM D 2854	0.53-0.54	0.50-0.52	0.49-0.50	0.48-0.49	0.46-0.48	0.46-0.46	0.42-0.44
Moisture Content (%)	ASTM D 2867	All product below 5 %						
Ball-Pan Hardness (%)	ASTM D 3802	99	99	99	99	98	98	97
Ash Content (%)	ASTM D 2866	All product between 2.5% to 3.0%						
Carbon Tetrachloride Activity (%)	ASTM D 3467	40	45	50	55	60	65	70
Iodine Number (mg/g)	ASTM B604	850	900	950	1000	1050	1100	1150
Methylene Blue (cc/g)		100	120	140	160	180	200	220
Benzene Absorption (%)		24.6	26.4	27.8	29.4	30.8	32.5	35.5
Surface Area (BET-m ² /g)	BET N ₂	900-1050	950-1100	1000-1150	1050-1200	1100-1250	1150-1300	1200-1350
Pore Volume (cc/g)		0.39	0.41	0.48	0.48	0.50	0.52	0.56
pH Value	ASTM D 3838	All product between pH9 - pH10						
Mesh Size	ASTM D 2862	4x8, 6x12, 8x16, 8x30, 12x30, 12x24, 20x40, 20x50, 30x80, 60x100 80x250						

GENERAL SPECIFICATION FOR PALM SHELL ACTIVATED CARBON

Base Material	Oil palm Shell Charcoal
Particular Shape	Granular
Bulk Density	0.40 - 0.47
Moisture Content	3%
Ball-Pan Hardness (%)	90 - 95
Ash Content	5 - 7 %
Iodine Number (mg/g)	950 - 1100
pH value	pH 10
Mesh Size	8 x 16, 8 x 30, 12 x 30



Coconut Shell



Coconut Shell Charcoal



Coconut Shell Activated Carbon



Oil Palm Shell



Oil Palm Shell Charcoal



Oil Palm Shell Activated Carbon

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