



## DDR - C - CIGARETTE FILTER SERIES

It is estimated that each year over five million people throughout the world die from cigarette related illness. Cigarette smoke contains more than 4000 compounds. Among these Nicotine is the primary source of tobacco dependence and others are toxins and carcinogens. Tobacco is an ever changing and extremely complex mixture of chemicals. It is formed when tobacco itself, a complex mixture of over 2000 chemical constituents, is burnt during the smoking of cigarettes, cigars, or pipes. When a cigarette burns, thousands of chemical substances are generated and they are distributed between the gas phase and the particles that constitute the smoke aerosol.



We at DDR Overseas , manufacture 20 X 70 is a very special grade of activated carbon made from selected grades of coconut shell which is produced also under rigidly controlled high temperatures steam activation. Due to its high surface area, this specific grade is used in cigarette filters for the purpose of removing various vapor ingredients from cigarette smoke. In the centre of the filter, two thin fiber filters hold a layer of activated carbon and so when the smoke is passed through the charcoal, it absorbs a large amount of Nicotine and Tar and other undesirable constituents from smoke , without affecting its flavor and aroma characteristics. This helps the filters adsorb the carcinogens and other toxic ingredients that emerge out of tobacco smoke. It takes away all the harshness and the result is the smoother and flavorsome smoke.

## How exactly does Activated Carbon fare against Cellulose acetate?

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Cellulose Acetate filtered cigarettes contain substantial amounts of p-BenzoSemiQuinone(p-BSQ) which is about 100 to 200 g /cigarette. It has been determined that when a Cellulose Acetate filter is replaced by a Charcoal filter, the amount of p-BSQ in the mainstream smoke is reduced by 73-80% and prevents protein carbonyl formation to the extent of 70– 90%.

## DDR –C -Carbon mesh sizes used for Cigarette filters are:

MeshGrade	12x20	30x60	20x70
Product code	DDR-C 12x20	DDR-C 30x60	DDR-C 20x70
Type of Carbon	Granular	Granular	Granular
Iodine No. (mg/gm)	1050 - 1200	1050 - 1200	1050 - 1200
CTC %	45 Min, 50 Min, 60 Min	45 Min, 50 Min, 60 Min	45 Min, 50 Min, 60 Min
Apparent Density (gm/cc)	0.43 - 0.54	0.43 - 0.54	0.43 - 0.54
Moisture (%) Max.	5	5	5
Ash (%) Max.	4	4	4
pH	9 - 11	9 - 11	9 - 11
Hardness	98	98	98

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