

ACTIVATED CARBON FOR FRICTION MATERIALS



Powdered (-200 mesh) Activated Carbons for Friction Materials

Type of Carbon	Grade #	Pore Volume	Pore Size/angstrom	Surface area	Molasses #	Iodine #
Coconut	5562	0.5 - 0.6	10-11	1000-1100	0 - 20	1100
Coal	5588	0.7 - 0.8	14-16	900-1050	20 - 40	900
Lignite	5545	0.9 - 1.0	29-32	600-675	90 - 105	600
Peat	5540	1.1 - 1.2	23-26	1000-1275	65 - 120	920
Wood	5598	1.4 - 1.8	22-26	1200-1600	70 - 190	1050

Granular Activated Carbons for Friction Materials

Type of Carbon	Grade #	Pore Volume	Pore Size/angstrom	Surface area	Hardness	Molasses #	Iodine #
Lignite	5506	.95	12 x 20	650	70	90	575
Coal	5586	.80	12 x 40	1000	90	40	920
Coconut	5558	xx	12 x 40	1100	95	xx	1100

Pore Volume Refers to all spaces inside the particle of Activated Carbon. Typically the higher this number, the higher the effectiveness.

Pore Size This is the average pore radius of the carbons pore

Surface area Total surface area that is measured by BET. However if a molecule is larger than the opening, smaller molecules cannot fill the pores

Hardness This generic term refers to the resistance of a particle to breakdown as measured by specific tests.

Molasses # Measures adsorption of molasses from an aqueous solution. The bigger this number, the better carbon will remove large sized contaminants.

Iodine # Measures the adsorption of iodine in an aqueous solution. The bigger this number, the better the carbon will remove small sized contaminants.

Any of these grades can be specifically sized to meet your specific needs.



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