WESTATES® COAL BASED PELLETIZED ACTIVATED CARBON - VOCARB® P60 AND P70 CARBONS (FORMERLY AP-640 AND AP-620)

IDEALLY SUITED FOR GAS PHASE ADSORPTION APPLICATIONS

Description

VOCarb® P60 and VOCarb® P70 pelletized activated carbons are manufactured from a high grade metallurgical coal (anthracite). They possess both a high surface area and a large internal pore volume. These properties give the VOCarb P60 and P70 activated carbons not only high VOC adsorption capacities but also high retentivities for retaining and preventing the desorption of previously adsorbed organic compounds. Their 4 mm diameter and pellet shape allow for a low bed pressure drop even at high gas flow rates. The superior hardness of these carbons result in minimal attrition and offer excellent resistance to dust and fines formation.

VOCarb P70 is more highly activated than P60, resulting in a higher surface area and more macroporous pore structure, which allows VoCarb P70 an increased VOC working capacity in solvent recovery applications.

Applications

Cost effective VOCarb activated carbons developed by Evoqua have been demonstrated to provide superior performance in an extensive array of gas phase treatment applications. VOCarb activated carbons are available for:

- Solvent recovery operations
- Chemical process applications
- VOC control from air strippers, soil vapor extraction and air sparge systems
- Control of tank vent emissions
- HVAC
- Odor control
- As a substrate for odor control carbon manufacture and as a catalyst support

Features and Benefits:

- Exceptionally high VOC adsorption capacity
- Excellent VOC retentivity characteristics
- Cost effective
- Suitable for multiple cycles of regeneration and high temperature reactivation
- High ignition temperature
- Easily reactivated for recycle and reuse
- Low-pressure drop characteristics
- Backed by technical support and a strong QA/QC program

Quality Control

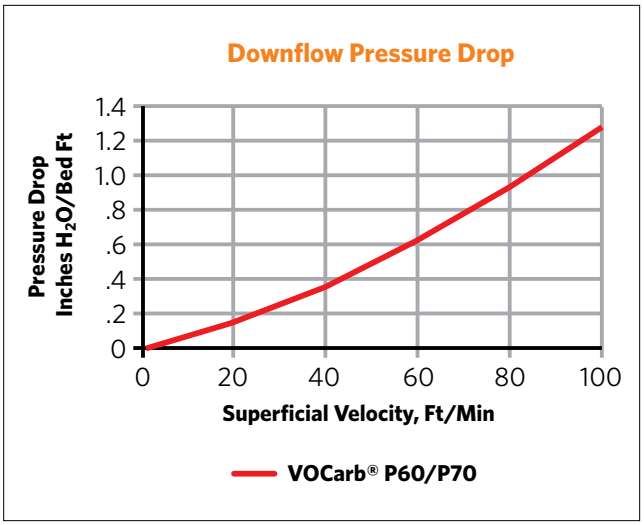
All VOCarb® activated carbons are extensively quality checked at our State of California certified environmental and carbon testing laboratory located in Los Angeles, CA. Evoqua's laboratory is fully equipped to provide complete quality control analyses using ASTM standard test methods in order to assure the consistent quality of all Westates® carbons.

Our technical staff offers hands-on guidance in selecting the most appropriate system, operating conditions and carbon to meet your needs. For more information, contact your nearest Evoqua representative.

TYPICAL PROPERTIES

Parameter	VOCarb® P60	VOCarb® P70
Carbon Type	Anthracite Coal	Anthracite Coal
Mesh Size, U.S. Sieve	4 x 6	4 x 6
Butane Activity 1	23.5	27.5
Hardness No., Wt.%	95	95
Moisture Content, Wt.%	2	2
Apparent Density, g/cc	0.47 - 0.53	0.47 - 0.53
Mean Pellet Diameter, mm	4.0	4.0
CTC Activity [1]	60	70

[1] Butane activity (D5742) has been adopted by ASTM as a replacement for CTC activity (D3467) as a test method for estimating the micropore volume of an activated carbon.



Warning

The adsorption of organic compounds onto activated carbon generates heat. In rare instances, adsorbed compounds may also react on the carbon surface to generate additional heat. If these heat sources are not properly dissipated, the carbon bed temperature may rise to the point where the carbon can ignite, leading to a fire or other hazardous condition. A description of industry-accepted engineering practices to assure the dissipation of heat and safe operation of the carbon bed can be provided upon request. In certain applications where the risk of ignition is significant, activated carbon may not be a recommended treatment technology. Please contact your Technical Sales Representative for more details.

Wet activated carbon readily adsorbs atmospheric oxygen. Dangerously low oxygen levels may exist in closed vessels or poorly ventilated storage areas. Workers should follow all applicable state and federal safety guidelines for entering oxygen depleted areas.

EVOQUA WATER TECHNOLOGIES

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