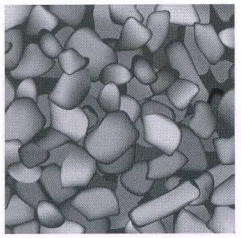

ProGuard 600 Media

ProGuard 600 is virgin, coconut shell based, granular carbon selected for high activity capabilities. It is specifically designed to remove a broad range of gaseous compounds from the air and is routinely used in HVAC systems in offices, machine shops, lounges, restaurants, and commercial and industrial buildings.

MEDIA COMPOSITION

ProGuard 600 is made from select grades of high quality coconut shell, activated under rigid process control conditions by high temperature steam activation to yield a strong, dense, very active product. It provides a high surface area, fine pore structure, high hardness, high volume activity and ease of regeneration.

MEDIA ADVANTAGES

- *Very hard*
- *Very effective for a broad range of chemicals*
- *Nontoxic and nonhazardous*
- *Long history of successful usage*
- *Easy disposal*
- *Renewable resource*

TARGET CONTAMINANTS AND THE REMOVAL PROCESS

Contaminants are removed by adsorption, absorption and molecular attraction. Odorous gases are captured as they flow through the granule where they are captured on the vast surface area. Common contaminants include: cigarette smoke, VOCs, acetic acid, chlorine, methyl alcohol, ozone, and toluene.

ADDITIONAL MEDIA

ProMark provides a range of media that covers all gas phase filtration requirements. **ProGuard 100** is designed for ethylene and general odor control. **ProGuard 200** is designed for toxic and corrosive gases. **ProGuard 400** removes chlorine gas. **ProGuard Blend** combines ProGuard 200 or 300 and carbon for general odor control over the greatest range of gases. **ProGuard 700** is activated coal based carbon for general odor control. **ProGuard 800** is designed for ammonia and other basic pH gases. **ProGuard 900** controls acid gases. **Dry 208** desiccant replaces any alumina based desiccant media for air or liquid drying. The right media will be selected to address the specific need based upon contaminant gases present, concentration levels, airflow requirements, environmental concerns and room design considerations.

YOUR COMPLETE SOURCE FOR GAS PHASE FILTRATION

- *Media for all types of applications ($KMnO_4$ on alumina, plain carbon, impregnated carbon)*
- *Equipment design and supply*
- *Laboratory support, media testing, coupon analysis*
- *Monitoring instruments*
- *Technical support for application and design*

ProMark Associates, Inc.
Gas Filtration Experts

2656 Broadway Ave. Evanston, IL 60201-1502 USA
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ProGuard 600 Media

CHEMICAL CAPACITY

ProGuard 600 activated carbon captures many compounds and its capacity for each is directly related to the molecular weight of the compound. In general, the capacity will be in the range of 20-25% by weight.

PHYSICAL PROPERTIES

ProGuard 600 shall have the following properties:

- ***Carbon Tetrachloride Activity*** *60% minimum*
- ***Apparent Density*** *30 lbs./cu.ft (.48 g/cc)*
- ***Ash Content*** *5% maximum*
- ***Hardness, Ball Pan*** *≥ 95% minimum*
- ***Iodine Number*** *1,100 mg/g*
- ***Moisture Content*** *5% maximum*
- ***Mesh Size*** *4x8, 4x10, 20x40*

QUALITY CONTROL

Quality control is maintained by monitoring the physical properties and chemical capacities and ensuring they fall within specifications.

APPLICATION GUIDELINES

ProGuard 600 shall perform effectively under the following conditions and guidelines:

- ***Temperature*** *-4°F to 125°F (-20°C to 51°C)*
- ***Humidity*** *10-95%RH*
- ***Airflow*** *60 FPM to 500 FM in commercial and industrial systems*
- ***Media Performance*** *ProGuard 600 shall be designed for 99.5% min. removal efficiency when new in properly designed systems.*
- ***Media Life*** *In order to determine ProGuard 600 media life, periodic samples shall be taken and returned to the factory for analysis. The results of testing make it possible to project changeout intervals and ensure media performance.*

INSTALLATION AND DISPOSAL REQUIREMENTS

Installers shall use dust masks, safety goggles, and rubber gloves. Spent ProGuard media should be disposed of according to local, state and federal guidelines. When new it is safe for landfills.

PACKAGING

ProGuard 600 carbon media is packaged in 55 lb bags and is also available in 1,100 lb bulk sacks.

ADDITIONAL INFORMATION AND RELATED EQUIPMENT

- ***PMA Media Selection Chart -*** *lists specific gases that are controlled by ProGuard 200 media (potassium permanganate on alumina) as well as gases controlled by ProGuard 700 carbon and other media, either alone or in a blend.*
- ***PMA 12 & 18 Media Modules -*** *refillable steel, standardized modules that hold the ProGuard media for use in housings.*
- ***PMD 12 & 18 Media Modules -*** *disposable modules that are filled at the factory with any of the ProGuard media.*
- ***PMA Trays -*** *refillable steel trays that hold media for installation in various housings.*
- ***Honeycomb Disposables -*** *directly replace refillables and can be filled with any of the ProGuard media.*
- ***Carbon Bonded Disposables -*** *activated carbon in a bonded block disposable filter, suitable for high purity applications; more carbon per panel than a comparable loose fill. Eliminates metal and labor to empty and fill metal trays.*

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