



ProGuard 700 Media

ProGuard 700 is pelletized carbon based on bituminous coal. It is designed to remove a broad range of gaseous compounds from the air. It is routinely used in HVAC systems in offices, machine shops, bars, restaurants, and industrial buildings.

MEDIA COMPOSITION

ProGuard 700 carbon media contains a high percentage of medium diameter pores (mesopores), which have the highest capacity to adsorb medium to high molecular weight compounds. Their ability to remove these gases down to very low parts per billion levels makes them effective odor and pollution controllers.

MEDIA ADVANTAGES

- *Low dust*
- *Very effective for a broad range of chemicals (contaminants)*
- *Nontoxic and nonhazardous*
- *Uniform size*
- *Easy disposal*

TARGET CONTAMINANTS AND THE REMOVAL PROCESS

Contaminants are removed by adsorption and chemisorption. Odorous gases are trapped throughout the pellet utilizing the full capacity. Common contaminants include: acetic acid, alcohols, VOC's like benzene, chlorine, garlic, onion, gasoline ozone, phenol, and tobacco smoke.

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 800** is designed for ammonia and other basic pH gases; **ProGuard 900** controls acid gases. 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 (KMnO₄ on alumina, plain carbon, impregnated carbon)*
- *Equipment design and supply*
- *Laboratory support, media testing, coupon analysis*
- *Monitoring instruments*
- *Technical support for application and design*



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CHEMICAL CAPACITY

Chemical capacity varies with the specific gas contaminant being adsorbed. In general, the capacity will be in the range of 20-25% by weight.

PHYSICAL PROPERTIES

ProGuard 700 shall have the following properties:

- **Particle Sizes** 4mm
- **Moisture Content** 3% maximum
- **Hardness** ≥ 95
- **Bulk Density** 30 lbs/ft³ (0.48 g/cc)
- **Carbon Tetrachloride Activity** 65 min.
- **Iodine Number** 1100 mg/g
- **Ash Content** 12% maximum

QUALITY CONTROL

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

APPLICATION GUIDELINES

ProGuard 700 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 FPM in commercial and industrial systems.
- **Media Performance** ProGuard 700 shall be designed for 99.5% min. removal efficiency when new in properly designed systems.
- **Media Life** in order to determine ProGuard 700 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.

PACKAGING

ProGuard 700 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 700 media as well as gases controlled by the other ProGuard carbons, ProGuard 200 (potassium permanganate on alumina) 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.