

General Applications

Techsorb chemical media is specifically formulated to control application specific nuisance and harmful vapors. It is supplied in bulk form and may be incorporated into Flanders gas phase media trays

Considering the wide range of applications and that contaminants are rarely singular in nature, Flanders will provide application assistance that may be required. When dealing with gaseous contamination control, particulate control or contaminant capture effectiveness, Flanders has a proven track record to support your requirements.

Shelf Life

Techsorb chemical media is a very active material that readily reacts with many airborne constituents. Therefore, only the containers actually required for the application should be opened. As shipped in sealed containers, Techsorb has a shelf life of 18-24 months.

Media Types & Applications

Techsorb TS-101 is a dry, activated alumina medium, designed to be used in applications for the removal of gaseous vapors such as hydrogen sulfide, mercaptans, sulfur dioxide and other malodorous and corrosive contaminants.

Techsorb TS-101 has been used extensively in applications ranging from Indoor Air Quality to Corrosion Control and from Toxic Contaminants Control to Industrial Odor Control. Within this broad range of applications, it has been used to control formaldehyde odors in autopsy wards and funeral homes; odors from convalescent facilities, allowing the reuse of ventilation air; in shopping malls to prevent the cross contamination of food odors and clothing shops; industrial computer rooms for the prevention of electronics corrosion due to the highly reactive sulfides; in pharmaceutical facilities and pet stores for the control of fugitive odor emissions.

Techsorb TS121 is composed of potassium permanganate and carbon and is used for the removal of hydrogen sulfides.

Techsorb TS-201 is a dry, granular, activated carbon chemical medium, designed to be used in air filter service for the removal of gaseous vapors such as volatile organic compounds (VOCs). Typical VOCs controlled include benzene, ethylbenzene, toluene and xylene. Other organics controlled include organo-sulfides such as dimethyl sulfide and methyl mercaptan in pulp and paper mill communities.

Techsorb TS-201 has been used extensively in applications ranging from Indoor Air Quality to Industrial Odor Control. The primary application is for the control of volatile organic gases found in indoor environments associated with renovation activities, new materials of construction and particleboard furnishings. This material is also ideal for controlling odors associated with cleaning solvents, hobby materials and automobile exhaust fumes. Electronic office equipment odors such as ozone and VOCs are readily removed using TS-201 chemical media.

Techsorb TS-202 is a dry, granular, activated carbon chemical medium, designed to be used in air filter service for the removal of acid gases and vapors such as hydrogen sulfide, mercaptans, sulfur dioxide and other malodorous and corrosive contaminants such as HCl and ClO₂.

Techsorb TS-202 has been used extensively in applications ranging from Corrosion Control to Industrial Odor Control. The primary application is for the control of corrosive gases within heavy industries such as Pulp & Paper, Sewage Treatment, Primary Metals, Chemical manufacturing as well as oil and gas processing. Additionally, it is used in Sewage Treatment and rendering Facilities for the control of malodorous exhaust emissions, either alone or as a polishing filter system to wet scrubbers.

Techsorb TS-204 is a dry, granular, activated carbon chemical medium, designed to be used in air filter service for the removal of alkaline gases and vapors such as ammonia and light organic amines. Applications include odor control associated with animal storage areas and process protection within the semiconductor industry.

TECHSORB TS-204 has been used extensively in applications ranging from Odor Control to Process Protection. The primary applications are for odor control associated with ammonia and low molecular weight amines typical of animal confined space areas, decaying fish, sugar beet processing, ammonia cleaning solutions and blue printing. Process protection applications within the semiconductor industry include removal of fugitive amines that are known to alter the photolithography process.

Techsorb TS-205 is a dry, granular, activated carbon chemical medium, designed to be used in air filter service for the removal of gaseous vapors such as formaldehyde, acrolein, acetaldehyde and glutaraldehyde.

TECHSORB TS-205 has been used extensively in Odor Control applications. The primary applications are for odor and contamination control associated with aldehydes and acrolein. Formaldehyde is a suspected human carcinogen. It is often found as a

by-product of formaldehyde resins in particleboard furniture, a decomposition product of poorly mixed urea formaldehyde foam insulation and as a volatile ingredient in permanent press clothing, drapery and carpeting. Acrolein is a by-product of combustion processes such as cooking. Acetaldehyde is a constituent of vehicle emissions. Glutaraldehyde is used as a sterilizing agent for medical instruments that are not readily autoclaved.

Techsorb TS-209 is a dry, granular, activated carbon chemical medium, designed to be used in air filter service for the removal of gaseous vapors.

TECHSORB TS-209 has been used extensively in applications associated with mixed contaminants, such as those found in the semiconductor industry. It has been found effective for the control of condensable organics, chlorine, hydrogen sulfide, hydrogen cyanide, sulfur dioxide and ammonia.

Techsorb TS-225 is a unique blend of adsorbents specifically designed to remove JP4-S Jet fumes.

Media Designator	Contaminant Removal Capacity (Note 1)	Contaminant	Bulk Density (lbs/ft ³)
TS-101	10%	H ₂ S	50
TS-121	5%	H ₂ S	40
TS-201	60-70%	toluene	30
TS-202	18-23%	H ₂ S	35
TS-204	10%	ammonia	34
TS-205	5-10%	formaldehyde	36
TS-209	12-18%	H ₂ S	34
TS-225	8-12%	JP4-5 Jet fumes	35

Notes

- Contaminant removal capacity is determined by passing a moist (85% r.h.) stream of air containing 1% by volume challenge gas through a one-inch diameter tube with a 9-inch deep bed of closely packed pellets at a rate of 1450 cc/minute and monitoring a 50 ppm breakthrough. The results are reported as grams of challenge gas adsorbed per gram of media.
- Particle Size is 4x8, U.S. Mesh, ASTM D-2862.
- Techsorb media are available in 1 cubic foot boxes, 50 pound drums and 1000 pound "supersacks".

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