

INFORMATION SHEET

Carusorb® 100 is an air filter medium, consisting of a special formulation of activated alumina and potassium permanganate which sorbs and oxidizes gaseous air contaminants. It is specifically recommended both for identifiable organic chemicals, such as ethylene and formaldehyde, and also for applications involving general odor abatement and energy conservation.

CHEMICAL AND PHYSICAL DATA

Description

Brightly colored purple spheres of activated alumina containing potassium permanganate

Chemical Content

Five percent potassium permanganate by weight, minimum. Twelve to sixteen percent moisture, by weight.

Particle Size

Spheres ranging from 3 to 6 mesh
Other sizes are available upon request

Bulk Density

Fifty to 54 pounds per cubic foot

Stability

Since this product is used for air purification, it must be kept in tightly closed containers prior to use.

PERFORMANCE DESCRIPTION

Due to the sorptive properties of activated alumina, Carusorb® 100 quickly sorbs impurities from air to which it is exposed. In addition, oxidizable impurities are ordinarily converted by the potassium permanganate present to carbon dioxide and water. A change in color from purple to brown indicates that potassium permanganate is at work. However, an initial color change does not indicate depletion. Carusorb® 100 will continue to oxidize air contaminants until the entire pellet has undergone a color change. Also, measurements of contaminant levels in effluent air can determine the need for replacement of Carusorb® 100. Of course, the sorptive properties of activated alumina may continue to function following depletion of potassium permanganate.

CARUSORB® 100 APPLICATIONS

Formaldehyde

This ubiquitous air contaminant is found in many households and office buildings as a result of increased use of synthetic materials. It is also used intentionally in hospitals, mortuaries and various industries. Since it is a suspected carcinogen, its control has become necessary.

PACKAGING AND HANDLING

Carusorb® 100 is packaged in 50 lb. net weight plastic pails and corrugated boxes. Super sacks having a net weight of 1.000 lb. are also available. Carusorb® 100 should be stored in its container, lightly sealed, and kept away from moisture to preserve its activity. Carusorb® 100 presents no health hazard when handled and stored properly.

Refer to our Material Safety Data Sheet for more detailed information on storage and handling.

The information contained herein is accurate to the best of our knowledge. However, data, safety standards and government regulations are subject to change and the conditions of handling; use or misuse of the product are beyond our control, CARUS CHEMICAL COMPANY MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. CARUS ALSO DISCLAIMS ALL LIABILITY FOR RELIANCE ON THE COMPLETENESS OR CONFIRMING ACCURACY OF ANY INFORMATION INCLUDED HEREIN. Users should satisfy themselves that they are aware of all the current data relevant to their particular uses.

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FLORENCE FILTER CORPORATION

Produce and Cut Flowers

Control of ethylene levels in the vicinity of harvested produce and cut flowers during transportation and storage is an important factor in retarding spoilage or premature ripening. Ethylene is a plant hormone which speeds the ripening process and is produced by most, if not all, fruits, vegetables and flowers. Its accumulation in post-harvest situations can be controlled by various contained forms of Carusorb® 100 (Please request the Carusorb® Sachets information sheet)

Indoor Air Quality

With increased use of airtight construction for energy conservation and of newer synthetic materials, indoor air quality in homes, office buildings and businesses has worsened. Control of a variety of malodors and potentially toxic vapors with Carusorb® 100 will both improve air quality and allow for continued use of energy conservation practices

Cooking Odors

Institutional and commercial cooking on a large scale can cause development of objectionable odors in exhaust equipment. When used in equipment in conjunction with particle and grease filters, Carusorb® 100 provides effective control.

TECHNICAL ASSISTANCE

Carus has a proven background in pollution control and will provide continuing service related to Carusorb® 100 as long as it is in use. Carus will provide all available information concerning your specific need including recommendation concerning amounts needed, lifetimes and optimum operating conditions.

Carus ordinarily does not provide equipment or the special filter casings for use with Carusorb® but can recommend suppliers for the design and installation of air handling equipment specifically for Carusorb® 100 uses in all applications.

When necessary, Carus will conduct laboratory evaluations which duplicate, as closely as possible, an intended application. These evaluations can be useful in feasibility determinations and in supplying equipment design parameters.

"Quality Air Filtration Products since 1971"

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