

PRODUCT SPECIFICATION 4

PURAFIL® ESD CHLOROSORB® ULTRA MEDIA



PURAFIL ESD CHLOROSORB ULTRA MEDIA'S removal capacity for chlorine gas (Cl_2) is 15% minimum by weight. For example, 100 lbs (45.36 kg) of Chlorosorb® Ultra Media will remove a minimum of 15 lbs (6.80 kg) of chlorine.

Third-party laboratory testing demonstrates Chlorosorb® Ultra's ability to remove the entire contents of a fully-loaded, storage cylinder with less than 25 parts per billion at discharge.



MEDIA SPECIFICATION

Chlorosorb® Ultra carbon-based media shall consist of manufactured, generally spherical, porous pellets measuring 1/8" in diameter. Pellets shall be formed from a combination of powdered activated carbon, alumina and other binders, suitably impregnated to enhance the capacity for removal of chlorine.

Impregnants shall be applied during pellet formation, such that the impregnant is uniformly distributed throughout the pellet volume

THE CHEMISORPTIVE PROCESS

The chemisorptive process shall remove contaminant gases by means of adsorption, absorption, and chemical reaction. Gases shall be trapped within the pellet where an irreversible chemical reaction changes the gases into harmless solids, eliminating the possibility of desorption.

REMOVAL CAPACITY

Chlorosorb® Ultra's removal capacity for chlorine gas (Cl_2) is 15% minimum by weight.

For example, 100 lbs (45.36 kg) of Chlorosorb® Ultra Media will remove a minimum of 15 lbs (6.80 kg) of chlorine.

PHYSICAL PROPERTIES

- Moisture Content: 35% Maximum
- Crush Strength: 35% - 70% Maximum
- Abrasion: 4.5% Maximum
- Bulk Density: 45 lbs/ft³ (0.72 g/cc) \pm 5%
- Nominal Pellet Diameter: 1/8" (3.2 mm)

APPLICATIONS

Purafil ESD's Chlorosorb® Ultra Media is recommended for emergency removal of chlorine gas from an accidentally discharged storage cylinder. Scrubber capacities range from 150 pounds to one ton and greater.

Purafil ESD's Chlorosorb® Ultra Media can be used to remove smaller leaks from everyday applications. For further information, please refer to the Chlorine Drum Scrubber Product Bulletins.

ADVANTAGES

- Landfill disposable.
- New and spent media is non-toxic.
- UL Classified Class 2
- Requires no special heaters. Operates effectively in temperatures as low as -40° F.
- Superior Cl_2 removal capacity: 15% minimum by weight

APPLICATION GUIDELINES

Chlorosorb® Ultra Media shall perform effectively under the following conditions and guidelines:

- Temperature: -40° F to 125° F
(-40° C to 51° C)
- Humidity: 10 - 95% RH

DISPOSAL REQUIREMENTS

Spent Chlorosorb® Ultra Media should be disposed of according to government guidelines.