PRODUCT BULLETIN

PURAFIL CHLOROSORB ULTRA MEDIA

Chlorosorb® Ultra Media consists of generally spherical, porous pellets formed from a combination of activated carbon, activated alumina and other binders, suitably impregnated to provide an enhanced removal capacity for chlorine (Cl_2). Impregnants are applied during pellet formation such that they are uniformly distributed throughout the pellet volume and are completely available for reaction with chlorine gas.

Chlorosorb Ultra Media has been specially engineered for use in Purafil's emergency gas scrubbers (EGS) to provide protection from a catastrophic release of chlorine gas from storage cylinders ranging from 150 pounds (68 kg) to 1 ton (907 kg) and greater. The chemisorptive process removes contaminant gases by means of adsorption, absorption, and chemical reaction (neutralization). Chlorine gas is trapped within the pellet and converted into a harmless salt that remains in the pellet, eliminating the possibility of releasing toxic chlorine back into the environment.

Chlorosorb Ultra Media demonstrates a higher working capacity in applications where Purafil's Drum Scrubber could be applied for the control of lower quantities / concentrations of chlorine.



Chlorosorb Ultra Media provides the following minimum removal capacities:

REMOVAL CAPACITY (MINIMUM)

CONTAMINANT GAS	g/cc	WEIGHT%*
Chlorine (Cl_2)	0.1080	15.00
Sulfur Dioxide (SO_2)	0.0864	12.00

*100 pounds (45.36 kg) of Chlorosorb Ultra Media will remove a minimum of 15 pounds (6.80 kg) of chlorine

SPECIFICATIONS

Moisture	35% (max)
Crush strength	45-80%
Abrasion	4.5% (max)
Bulk density	45 lb/ft^3
Nominal pellet diameter	1/8" (3.175 mm)

APPLICATION GUIDELINES

Temperature	-4°F to 125°F (-20°C to 51°C)
Humidity	10 - 95% RH
Air Speed	60 - 500 fpm (0.30 - 2.54 m/s)
Performance	99.5% (min) initial removal efficiency in Purafil systems

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Advantages

Chlorosorb Ultra media is non-toxic and non-hazardous as supplied and spent media is completely landfill disposable. It offers the highest chlorine absorption rate (15% by weight) is UL classified for flammability.

Quality Control

Each lot of Chlorosorb Ultra media is thoroughly tested prior to shipment according to the procedures described in Purafil's ISO 9001 Quality Systems Manual. This testing includes but is not limited to: bulk density, impregnation level, moisture content, crush strength, and abrasion.

Media Life Analysis

Samples of Chlorosorb Ultra media should be sent on a regular basis to the Purafil laboratories for testing to determine remaining media life. This provides for scheduled maintenance, avoids downtime, and assures ongoing protection from chlorine gas release.

Disposal

Chlorosorb Ultra media should be disposed of according to local, state, and federal guidelines.

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