GES BIOTEK

PROUDLY MADE IN THE USA

Cell-Max™ Plus



Microbiological Odor-Control Solution

FOR BIO-SCRUBBERS® AND BIO-FILTERS

SPECIFICATIONS

Bulk Density (Dry)
10.5 lb/ft^3 (168 kg/m^3)

Bulk Density (Operating)
12.5 lb/ft^3 (200 kg/m^3)

Typical EBRT
Project specific

Face Velocity
Project specific

Water Holding Capacity
2.0 lb/ft^3 (32 kg/m^3)

Particle Size (>90%)
¾ to 3 in (19–76 mm)

Surface Area
400,000 m^2/m^3 (121,920 ft^2/ft^3)

Total Pore Volume
80 to 90%

Apparent Porosity
3.2%

Crushing Load (15% Strain)
13,000 lb/ft^2 (622 kPa)

Standard Packaging
50 ft^3 / 100 ft^3 Super Sacks (by volume)

These figures represent the combined results of three independent laboratory analyses plus GES Biotek's internal laboratory verification.

VIEW ONLINE

GES Cell-Max™ Plus is a next-generation engineered inorganic substrate specifically developed to maximize biological hydrogen sulfide (H_2S) removal performance in high-load Bio-Scrubber® and Biofilter systems.

Manufactured in the USA from 100% post-consumer recycled glass, **Cell-Max™ Plus** provides an optimized pore architecture with a carefully controlled distribution of *micro-pores* (to support high-density microbial colonization) and *macro-pores* (to maintain low static pressure drop and uniform gas distribution). This design yields a high specific surface area and an efficient gas–liquid–biofilm contact interface, supporting effective mass transfer with minimal energy penalty.

The media's rigid, lightweight, and chemically inert structure resists physical breakdown, acid attack, and biological degradation, ensuring stable pressure drop and consistent hydraulic performance throughout long-term operation. **Cell-Max™ Plus** is particularly well-suited for applications treating elevated H_2S concentrations under acidic pH conditions, where traditional organic media may degrade or compact. Its uniform shape and packing geometry also contribute to predictable empty bed retention time (EBRT) and uniform airflow distribution, critical for maintaining optimal removal efficiencies and extended operational life.

KEY FEATURES

Ecologically Friendly
The media serves as part of an ecosystem for the growth of a diverse colony of microorganisms for the treatment of H_2S odors.

100% Recycled
The media substrate is manufactured entirely from post-consumer recycled glass.

Acid Resistant
The media is acid resistant and able to tolerate a low-pH (<1) environment over its entire lifespan.

Stable
The media will not compact, degrade, or decompose over its lifespan.

Full Service
Media is installed on-site by the contractor.

Locally Produced
All media and components are products of the USA.

Warranty
Cell-Max™ Plus media carries a 20-year pro-rated warranty.
*Details at gesbiotek.com/terms

v4.0 – 7-28-2025

1540 Louis Bork Dr., Batavia, IL 60510 • (630) 473-3874 • sales@GESBiotek.com • GESBiotek.com