BIOLOGICAL HOST SUBSTRATE				
BioVast™ Product Description:	Ceramic monolithic structures comprised of Inorganic aluminosilicate material. Structures are robust, and highly porous. Extremely high surface area is created by extensive network of interconnected pores and channels that allow for free movement of liquid transfer.			
Intended Use for	BioVast™ is formulated for use as a substrate for the establishment and proliferation of bacterial colonies that are effective in biological filtration.			
BioVast™ Product Features:	 Network of Interconnected pore and channels Engineered pore size distribution Extremely high surface area Maximizes contact potential while minimizes restriction to flow Promotes natural biofiltration process High physical compression strength Composition and formulations flexible Monoliths and granular configurations Custom form factors available Minimizes / eliminates remediation chemical use Enables greener manufacturing processes - reduces carbon foot print Economically viable 			
Typical BioVast™ Applications:	 Robust in waste gas and waste water streams Used in new applications or as replacement media Placed directly within waste flow path 			
Product Preparation:	 Non-fired BioVast[™] formulations may require a one-time pH adjustment or rinse to remove excess alkalinity. BioVast[™] may also be fired during manufacture to eliminate the need for washing. 			
Proper Maintenance and Disposal:	 Typical product lifespan of 5 to 10 years depending on application Need for backwashing dependant upon composition of waste stream. Non-contaminated product may be disposed with non-commercial waste. 			

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Chemical Composition (typical)

Aluminum Oxide	36%
Silicon Dioxide	48%
Sodium Oxide	9%
Calcium Oxide	4%

Physical Properties (typical)

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	Unfired	Fired	Units
Specific Surface Area	8.0	1.5	m²/g
Surface Area per Volume	2,400,000	450,000	m^2/m^3
(100% pack)	730,000	137,000	ft^2/ft^3
Surface Area per Volume	1,536,000	288,000	m^2/m^3
(64% pack)	467,000	88,000	ft^2/ft^3
Density	0.25 - 0.38	0.25 - 0.38	g/cc
Pore Size	5 to 500	5 to 500	microns
Porosity	80 to 90	80 to 90	%



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