EXTOVER®

PORAVER
Sustainable Material Innovation

EXTINGUISHING WITH GLASS

MINERAL FIRE EXTINGUISHING AGENT FOR
CLASS D FIRES AND LITHIUM-BATTERIES



Displaces oxygen and suffocates the fire

Prevents re-flaming

No extinguishing water damage

Absorbing fluids (eg electrolyte)

Covering the fire load with EXTOVER® granulate displaces oxygen and separates it from the fuel. Like glass, EXTOVER® melts at a certain temperature. The granulate absorbs a lot of heat in the form of melting energy, thereby cooling the fire and forming at the same time an impermeable layer over the fire load. A reaction with oxygen is effectively prevented.

Technical data

Grain size		**extra fine**	**fine**	**coarse**
Grain size	[mm]	0.04 - 0.125	0.25 - 0.5	1 - 4
Particle size	[US mesh #]	400 - 120	60 - 35	18 - 5
Fire rating class (DIN 4102-4*)		non combustible (A1)		
Dry loose bulk density	[kg/m³]	530 ±70	340 ±30	220 ±30
	[lb/ft³]	33.1 ±4.4	21.2 ±3.2	13.7 ±1.9
Apparent density [1)]	[kg/m³]	1,150 ±150	700 ±80	400 ±60
	[lb/ft³]	71.8 ±18.7	43.7 ±5.0	25 ±3.7
Water absorbtion by mass	[Mass. %]	50	21	17
Water absorbtion by volume	[Vol. %]	30	15	12
Compressive strength	[Mpa]	≥ 9.0	≥ 2.6	≥ 1.5
	[psi]	≥ 1,305	≥ 377	≥ 217
Oversize	[M.-%]	≤ 10		
Undersize	[M.-%]	≤ 15		
pH value		8 - 12		
Moisture content	[M.-%]	≤ 0.5		
Softening point	[° C]	700		
Thermal Conductivity	[W/(m·K)]	0.106	0.090	0.07
	[BTU-in/hr-ft²-°F]	0.735	0.625	0.486
Main Component		silicon dioxide		
CE according DIN EN 13055-1*		✓		
Fire extinguishing agent class D		fire extinguisher use	fire extinguisher use	MPA No. 20140494-1*

[1)] Apparent (relative) density according to EN 1097-6
[2)] Values according to DIN V 18004 on request

The strength grades may vary within the tolerance range of bulk densities.

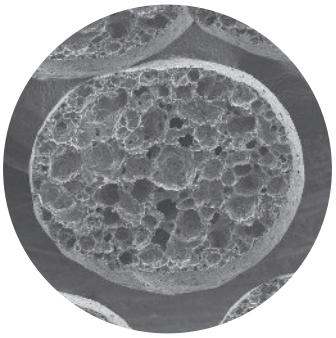
* References to testing and standards are specific to European EXTOVER® grain sizes and are not directly transferable and applicable to North American EXTOVER® grain sizes or to North America testing requirements. It is the responsibility of the end-user to conduct their own testing and to acquire their own certifications.

Advantages

+ Purely mineral
+ Low density
+ Dry bulk material
+ Best free flowing properties
+ Odourless, VOC-free, health friendly material
+ Environmental friendly - made from recycled glass
+ **Suitable for the use in class D fire extinguishers**



Health-friendly material:
mineral, inert, VOC-free and odourless.



Multicellular expanded granules with a closed pore structure.



Best free-flowing properties thanks to the spherical grain shape.

Distributor North America:
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