



**MORE REASON
FOR SAFE ROADS**

LOAD BEARING
LIGHT MATERIAL
FOR ROAD CONSTRUCTION



**GEOCELL GROUNDFOAM
TECHNICAL DATASHEET**
VERSION NOVEMBER 2014

TECHNICAL DATA

GEOCELL® GROUNDFOAM

APPROVAL		STANDARD
Building Material Approval	DiBt Z-23.34-1579	EN 13055-2
THERMAL CONDUCTIVITY		
Thermal Conductivity	λ_{90} <0,092 [W/mK]	DIN EN 12939v
DICHTE/PORIGKEIT		
Specific Gravity (without pores)	ρ_r 2,5 [g/cm ³]	factory data
Specific gravity of single grain	ρ_s >0,30 [g/cm ³]	factory data
Proportion of pores	η_s >0,90 [-]	factory data
Pore size	<2,0 [mm]	factory data
Specific gravity of bulk	ρ_{dG} 0,16< $\rho_{d,G}$ <0,23 [g/cm ³]	factory data
WATER ADSORPTION		
internal water adsorption	w_i 0,0 [Vol%]	factory data
water adsorption on grain surface	w_a <5,0 [Vol%] (reversibel)	factory data
COMPRESSION STRENGTH		
single axial compression strength	σ_{ck} > 3.000 [kN/m ²]	factory data
COMPRESSION		
typical value of compression	V_L 1,2 - 1,4 [-]	factory data
Modulus of initial loading (σ 100-200 kN/m ²)	E_{St} > 25 [MN/m ²]	factory data
Modulus of initial loading (σ 5-500 kN/m ²)	E_{St} > 5 [MN/m ²]	factory data
Modulus of reloading (σ 5-500 kN/m ²)	E_{St} > 70 [MN/m ²]	factory data
PARTICLE SIZE DISTRIBUTION		
Particle size distribution upon delivery	K ca. 10-60 [mm]	DiBt Z-23.34-1579
non-uniformity	C_u ~3 [-]	factory data
curve number	C_c ~1,3	factory data
GENERAL DATA		
Delivery	bulk or bigbags	DIN EN 18123
angle of inner friction	Φ 45-48°	factory data
cohesion	C 0 [kN/m ²]	factory data
drainage ability	K_f ~ 4,4 * 10 ⁻² [m/s]	
Freeze-thaw	frost resistant	
Diffusion properties	μ diffusible	
Gassing with heat	no gas emission, odor free	
Fire resistance	incombustible class A1	
Resistance to environmental influences	anti-aging, rodent-, bacteria-and rot-resistant	
Material radiation	no radiation or odors	
Alkali resistance	long-term stability, no damage to concrete	
Environmental impact	considered unpolluted excavation. Eluate test met. Meets BbodSchG guidelines.	

GEPRÜFTE QUALITÄT

DIBT-ZULASSUNG Z-23.34-1579

**AUSGEZEICHNET MIT DEM
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Bestehen Sie darauf!

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