



# TECHNICAL DATA SHEET

## USGA TOPDRESSING/ROOTZONE SAND

### ALPHA PREMIUM

#### Physical Properties Recommended by USGA

##### Physical Property

Total Porosity  
 Air-filled Porosity  
 Capillary Porosity  
 Saturated Hydraulic Conductivity  
 Bulk Density  
 Particle Density

##### Recommended Range

35%-55%  
 15%-30%  
 15%-25%  
 Minimum of 6 in/hr

##### Alpha Premium Values

44.3%  
 34.2%  
 10.1%  
 60.0 in/hr  
 1.47 g/cm<sup>3</sup>  
 2.64 g/cm<sup>3</sup>

#### Particle Size Distribution

Name Particle	Diameter	
Fine Gravel	2.0 - 3.4 mm	(10-6m)
Very Coarse Sand	1.0 - 2.0 mm	(18-10m)
Coarse Sand	0.5 - 1.0 mm	(35-18m)
Medium Sand	0.25 - 0.50 mm	(60-35m)
Fine Sand	0.15 - 0.25 mm	(100-60m)
Very Fine Sand	0.05 - 0.15 mm	(270-100m)
Silt	0.002 - 0.05 mm	(no standard)
Clay	< 0.002 mm	equivalent)
Total Fines		

##### Recommended Range

≤3%  
 FG+VCS ≤ 10%  
 CS+MS ≥ 60%  
 CS+MS ≥ 60%  
 ≤20%  
 ≤5%  
 ≤5%  
 ≤3%  
 VFS + S + C ≤10%

##### Alpha Premium (% retained)

0.0  
 1.1  
 28.5  
 51.9  
 14.9  
 3.2  
 0.0  
 0.4  
 3.6



## APPLICATION

Construction Rootzone for golf courses and sports fields.

Fine turf topdressing.

Rootzone amendment.

For more information on Luck Stone Corporation and our products, please visit [www.luckstone.com](http://www.luckstone.com).

These products are mixes of natural materials, so results can vary.