



Microspike Textured Geomembrane
Representative Interface Shear Values
Cap Loading Conditions
ASTM D 5321

Soil/Microspike Surface

• Coarse Sand	34° P	34° LD	92% Efficiency
• Lean Clay	37° P	32° LD	97% Efficiency
• Silty Sand	32° P	28° LD	100% Efficiency
• NW GT	32° P	17° LD	NA

Notes: The above values are representative friction angles only. It is recommended that site specific conformance testing be carried out using the actual soils, geosynthetics and loading conditions for a specific project.

P = Maximum or Peak Interface Shear Value in Degrees

LD = Large Displacement Interface Shear Value in Degrees

NW GT = Non Woven Needle punched Geotextile on a Geonet Composite

Cap Loads Used in Testing: 250, 500, 1000 psf

Efficiency: $E\phi = (\tan \delta / \tan \phi) 100$ (comparison of internal soil peak shear (ϕ) vs interface peak shear (δ))