

Barrier Function

“The use of a geosynthetic material to prevent the migration of liquids or gases.”

The geosynthetic acts as an obstacle, preventing the movement or migration of liquids or gases. The geosynthetic materials used as barriers have varying values of impermeability, and measures such as a composite barrier (i.e. geomembrane underlain by a geosynthetic clay liner) can be used to improve the impermeability.

Geomembranes, thin film geotextile composites, geosynthetic clay liners (GCLs) and field-coated geotextiles are used as fluid barriers to impede flow of liquid or gas. This function is also used in asphalt pavement overlays, encapsulation of swelling soils and waste containment.

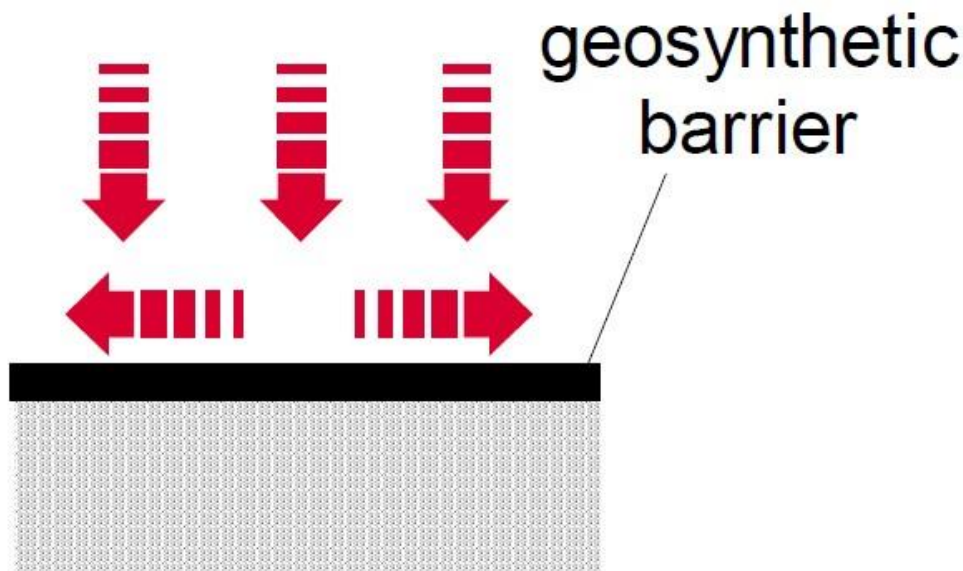


Image: Barrier Function

The above definitions are stated within the South African context.

Refer to ISO 10318:2018: Geosynthetics – Terms and definitions for formal definitions.

IGS Reference.