

Geosynthetics Interest Group of South Africa

Established 1994

Filtration Function

“The use of a geosynthetic to restrain soil or other particles subjected to hydrodynamic forces, while allowing the passage of fluids into or across the geosynthetic.”

The geosynthetic acts similar to a sand filter by allowing water to move through the soil while retaining all upstream soil particles. For example, geotextiles are used to prevent soils from migrating into drainage aggregate or pipes while maintaining flow through the system. Geotextiles are also used below riprap and other armour materials in coastal and river bank protection systems to prevent soil erosion.

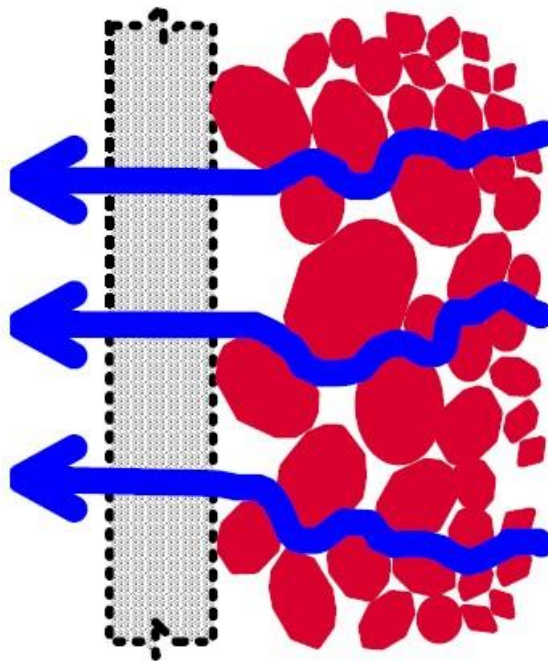


Image: Filtration Function

The above definitions are stated within the South African context.
Refer to ISO 10318:2018: Geosynthetics – Terms and definitions for formal definitions.
IGS Reference.