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Geonet



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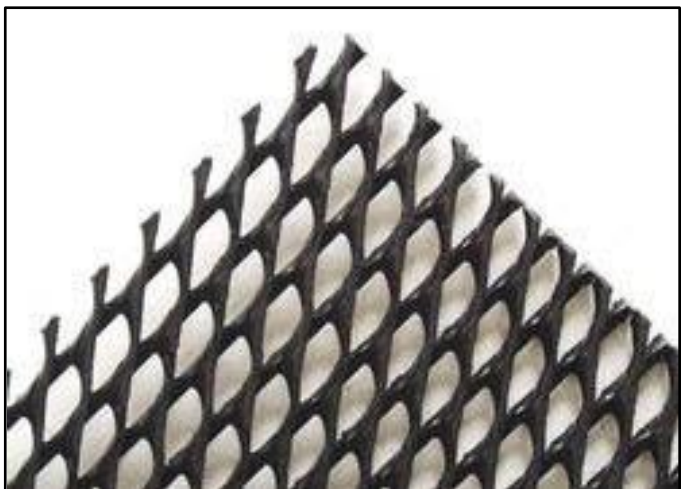
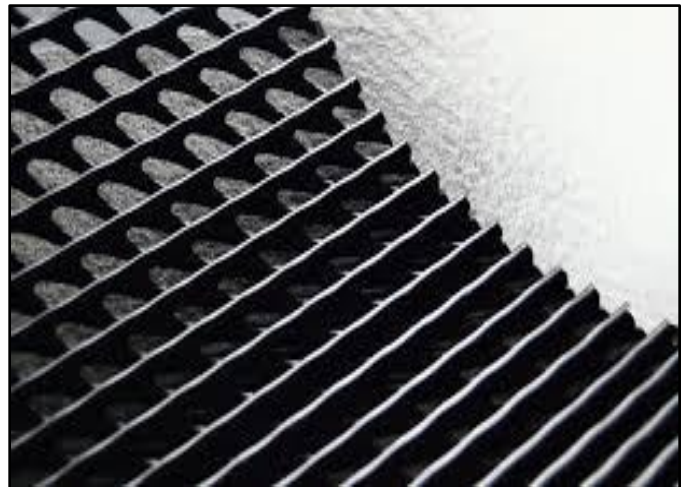
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Geonet

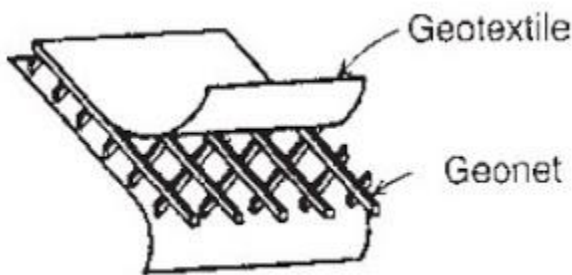


A network of polymer strips that easily allows fluids to pass through the empty spaces within the network

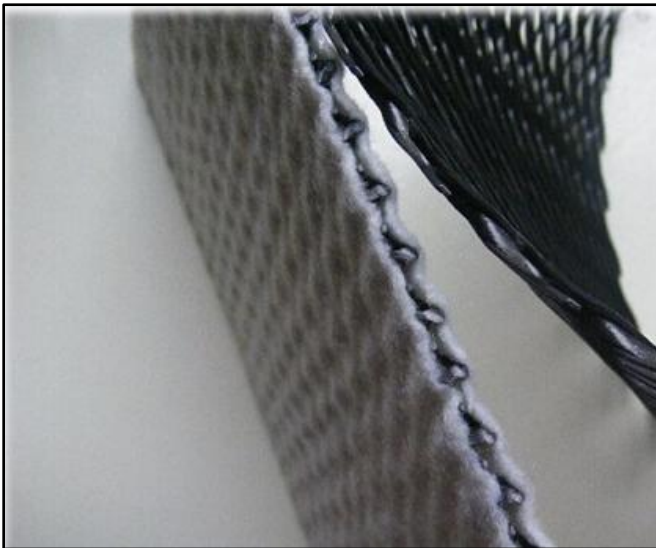
Geonets are often made from polyethylene with a specific gravity range of 0.934 to 0.940. Therefore, according to the ASTM D1248 standard, they fall under the category of medium-density polyethylene. The formulation of these polyethylene geonets is similar to that of HDPE geomembranes. The higher the specific gravity of the polyethylene used, the stronger and more rigid the geonet will be.



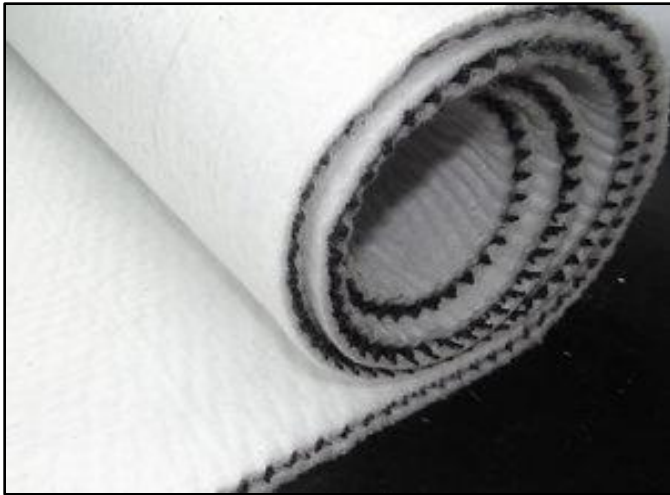
It is necessary to prevent soil particles from entering the void spaces within the geonet. If these spaces become filled with soil particles, the geonet will lose its drainage capability and will not allow fluids to pass through effectively. Therefore, two layers of geotextile or geomembrane are always used on both sides of the geonet to prevent the entry of soil and other materials into the drainage network. A new product that combines geonet, geotextile, and/or geomembrane is known as a geocomposite



The role of these geotextiles is to act as a filter and separator. The connection between the geotextile and the geonet must be done properly. If adhesive is used for the connection, care must be taken to avoid using an excessive amount, as this can cause the geonet's networks to become blocked, disrupting the drainage process



Geocomposites are supplied in rolls with various widths. Since geocomposites are covered with a layer of geotextile, they are less sensitive to heat and sunlight



Due to their excellent water flow capability, stability under various chemical conditions, resistance to weathering, ease of installation, and low cost, geonets are highly suitable for drainage and are widely used in almost all geotechnical structures requiring drainage. These geodrains are extensively applied in drainage systems for foundations, retaining walls, bridge abutments, lagoons, roads, and railways, serving as a suitable replacement for traditional drainage materials

