HaTe®-nonwovens: a wide range for project-specific solutions

HaTe®-nonwovens are manufactured from various raw materials using different methods, which are dependent on the particular requirements.

All technical product data presented in data sheets are based on ISO or/and EN standards.

For example, for many years mechanically bonded nonwovens with thicknesses greater than 4.5 mm have been used in the erosion protection of navigable waterways and coastal areas. Such materials have been well demonstrated by the test results from the Federal Institute of Hydraulic Engineering.

Nonwovens are manufactured or made-up in lengths / widths to meet specific contract requirements.

Extremely accommodating with excellent mechanical properties - the primary factors behind the quality of HaTe®-nonwovens for tunnelling applications. By using a special fibre blend the conditions required by DIN 4102 (flammability behaviour) are achieved.

The nonwoven safely protects the synthetic liner controlling water seepage.

Embankments can be highly exposed to water erosion. Here HaTe® composite drainage filters can assist.
HaTe®-nonwovens and composites in landfill construction not only offer excellent protection to the liner, but can meet the demands of other applications such as drainage, gas venting and separation.

Special demands are required to meet the harsh conditions within the landfill zone. High-density polyethylene (HDPE) has proved particularly successful.

The use of HaTe®-nonwoven pipe protection offers the contractor a chance of re-using aggressive backfill material. Considerable cost-savings can be achieved.

HaTe® rock protection materials offer high tear resistance, extreme robustness and are available up to 3,000g/m² in weight and 25mm thickness.

HaTe®-nonwovens used in separation reduce the need for subbase, increase the bearing capacity of the subgrade and can be installed without difficulty.

Their excellent properties avoid localised subgrade disturbance and ensure the long-term performance of access roads, forest tracks, storage areas, etc.

HaTe®-nonwovens meet the requirements of the German robustness specifications, classes 1-5, as outlined in the ‘Guidelines for the use of geotextiles and geogrids in earthwork construction’, FGSV, 2005.

HaTe® is a registered trademark of HUESKER Synthetic GmbH.
HUESKER Synthetic GmbH is certified by:

HaTelit®
Stabilenka®
resistant grid for asphalt reinforcement
Incomat®
SoilTain®
filtration, drainage and protection
Comtrac®
reinforcement
separation and filtration of soils
NaBento®
high-modulus flexible geogrid and a nonwoven
and erosion control
Reliable and advanced techniques characterise our construction demanding solutions relying on our many years' experience. Our solutions are economical, reliable and up-to-date and a basis for:

Earthworks and foundation engineering, landfill construction, hydraulic engineering, road construction

Technical assistance, planning, support - worldwide

HUESKER offers a wide range of technically demanding solutions relying on our many years' experience. Our solutions are economical, reliable and up-to-date and a basis for:

- Fortrac® - a flexible, high modulus and low-creep geogrid for soil reinforcement
- HaTelit® - a flexible, high-modulus and temperature resistant grid for asphalt reinforcement
- Stabilenka® - a high-modulus polyester woven for reinforcement and separation of soils
- Robute® - a very high-modulus and alkali-resistant woven for reinforcement and separation of soils
- Fernt® - a biaxial geogrid for subbase reinforcement
- Comtrac® - a geocomposite for reinforcement, separation and filtration of soils
- Duogrid® - a geocomposite made of biaxial high-modulus flexible geogrid and a nonwoven
- NaBento® - geosynthetic clay liner for sealing
- Incomat® - a concrete- or sand-mat for sealing and erosion control
- Ringtac® - geotextile tube for reinforcement and soil containment
- HaTef® - wovens and nonwovens for separation, filtration and protection
- SoilTain® - systems for hydraulic engineering and dewatering