



**BRILEN POLYESTER INDUSTRIAL YARNS**

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**2019, BRILEN.**

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 **GEOTEXTILES  
& GEOGRIDS**  
CIVIL ENGINEERING SOLUTIONS



# GEOTEXTILES & GEOGRIDS

## CIVIL ENGINEERING SOLUTIONS

Geosynthetics has proven to be among the most **versatile and cost-effective soil and sediment modification materials**.

Its use has expanded rapidly, and it now occupies almost all areas of civil, geotechnical, environmental, coastal and hydraulic engineering.

**It has long-term cost and performance advantages: low levels of hydrolytic degradation, robust mechanical properties and low creep.**

- **Geosynthetics in roads and pavements:** Division and levelling, base reinforcements, overlay for stress absorption and reinforcement.
- **Geosynthetics in subsurface drainage:** subsoil drainage, road bed drainage and drainage of structures.
- **Geosynthetics in erosion and sediment control:** hard reinforcement systems, rolling erosion control products, sediment barriers.
- **Geosynthetics in reinforced soil systems:** embankments on soft foundations, reinforced steepened slopes, mechanically stabilised earth walls.
- **Geosynthetics in seepage control systems:** water-proofing of structures, water supply preservation, environmental protection.

**Reinforcing  
your projects.**



# WHY BRILEN

## POLYESTER YARNS?

For geosynthetics, BRILEN yarns are produced on **state-of-the-art single stage spinning lines**: extensive research has been carried out to determine and optimize the long-term structural performance of yarns under sustained loads, and regarding their durability in geotechnical environments:

- **Consistent Mechanical properties** with strict internal controls throughout its time in production.
- **Creep rupture** and **creep elongation**, ensuring long term resistance of the mechanical properties.
- **High resistance to UV** with additives and colours.
- **Molecular Weight (Mw)** and **Carboxyl End Group Count (CEG)** guarantee the durability of structures regarding microbiological degradation and hydrolysis.

The Brilen yarn decitex range has been enlarged over recent years, and nowadays we are able to offer yarns of **up to 9900 Dtex**, which is a key factor in cost savings down the line..

Along the same lines of cost effectiveness, Brilen is able to provide its customers with **made-to-measure spools**, for example, special length spools, specific weights or plied yarns.