

HUESKER ROBUTEC® DATA SHEET

HIGH MODULUS WOVEN GEOTEXTILE FOR SUBGRADE/ FOUNDATION REINFORCING.

Robutec® is an extremely high modulus, low-creep and alkali-resistant reinforcement geotextile manufactured / woven from polyvinyl alcohol (PVA) fibres.

Robutec® is used as soil reinforcement in demanding construction projects where low deformation plays a crucial role. Typical applications include construction projects with significant geotechnical difficulties and strict limits on deformation.

Longitudinal and transverse strengths can be tailored to suit your project-specific requirements.

HUESKER Synthetic's in house engineering department can provide expert advice on the choice of Robutec® geotextile, assistance with stability checks, design calculations etc.

ROBUTEC® BENEFITS

- Resistant in alkaline environments, pH-value range 2-14
- Immediate take up of tensile forces with extremely low strains
- Can be manufactured to order with modulus up to and beyond 36,000 kN/m .
- Tensile strengths up to 2200 kN/m (uniaxial) and 500 kN/m (biaxial) in both directions
- Very low creep
- **HIGH RESISTANCE TO MECHANICAL DAMAGE**

TYPICAL APPLICATIONS:

- Bridging of sinkholes, underground voids, subsidence pits etc.
- Embankments on soft soils
- Embankments on piles or similar supporting members
- Filling over or capping sludge lagoons
- Soil stabilization in contaminated ground, e.g. for land reclamation
- Soil reinforcement in cement stabilized soils
- Soil reinforcement in alkaline soil types eg; raised bogs, sulphur rich marshland etc.
- Landfill applications

PRODUCT DATA			ROBUTEC 130/25	ROBUTEC 250/25	ROBUTEC 400/25		
MECHANICAL	TEST	UNIT					
Ultimate tensile strength Longitudinal	EN ISO 10.319	kN/m	≥ 130	≥ 250	≥ 400		
Strain @ nom. tensile strength Longitudinal	EN ISO 10.319	%	≤ 6%	≤ 6%	≤ 6%		
Modulus @5% strain Longitudinal	EN ISO 10.319	kN/m	2,000	5,000	8,000		
GEOTEXTILE HYDRAULIC							
Water permeability index normal to the plane	EN ISO 11058	l/m ² /s	8	15	10		
PHYSICAL							
Material	--	---	PVA / PP	PVA / PP	PVA / PP		
Weight	EN ISO 9864	g/m ²	≥ 270	≥ 470	≥ 700		
Roll size	---	m	5 x 300	5 x 200	5 x 200		
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PRODUCT NOTES

- The information listed in this data sheet is subject to periodic review and could be changed without notice.
- Robutec geotextiles are manufactured according to ISO 9001 quality assurance procedures.

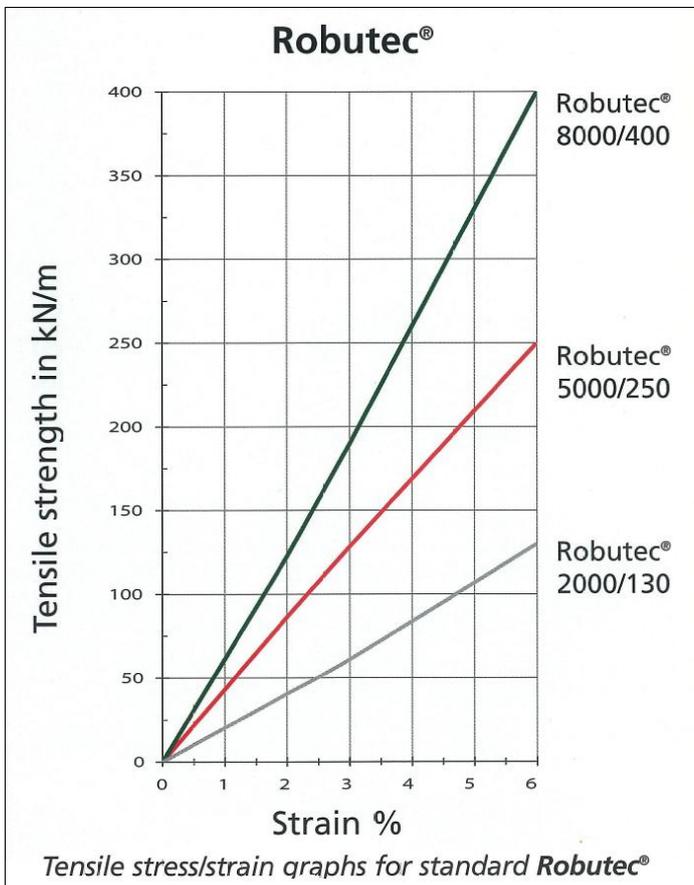


PHOTO OF SAMPLE OF HUESKER ROBUTEC



HUESKER ROBUTEC IS VERY ROBUST : HIGH RESISTANCE TO MECHANICAL DAMAGE

The information contained herein is furnished without charge or obligation. No responsibility is accepted for any change in product properties due to environmental influences and or improper application or handling.

Engineering with Geosynthetics