

TS - Separation & Filtration Nonwovens

TenCate Polyfelt TS geotextiles are mechanically bonded continuous filament nonwovens made from 100% UV stabilized polypropylene. They have been used for decades as separation and filtration elements in a large number of civil engineering applications.



TenCate Polyfelt TS

TS- geotextiles stabilise base courses over subgrades with low bearing capacity

TS- geotextiles ensure the uniform thickness of the base course by preventing the ingress of fill material into the fine-grained subgrade. Installation damage is prevented by the outstanding puncture resistance. The high tensile strength of TS in longitudinal, transverse and diagonal direction provides additional stability to the structure.

TS- geotextiles maintain the permanent function of drainage systems

TS- geotextiles offer excellent filtration properties, characterized by high water permeability and optimum soil-retention capability, even under high mechanic and hydraulic stress. This ensures that the drainage gravel keeps its water flow capacity, thus providing quick and efficient drainage of the soil.

TS- geotextiles are robust and long-lasting

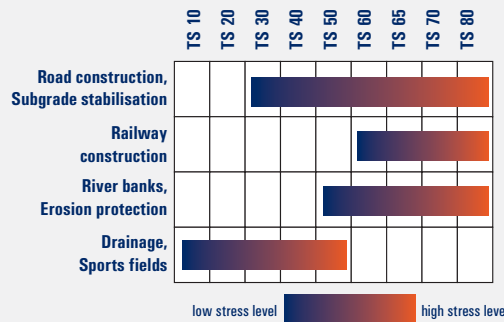
The manufacturing method (a continuous process with endless filaments) guarantees the use of high-quality raw materials. TS is resistant to all chemical and biological media usually occurring in soils and construction materials. It cannot be dissolved by water and therefore is harmless to ground water. TS- geotextiles are equipped with a UV-stabilizer, providing extended resistance to direct sunlight.

Service is a part of quality

Thanks to a worldwide network of subsidiaries and trading partners TS- geotextiles are quickly available. Standard grades can be delivered promptly. For technical questions an experienced team of experts is at your service.

TS- geotextile grade selection

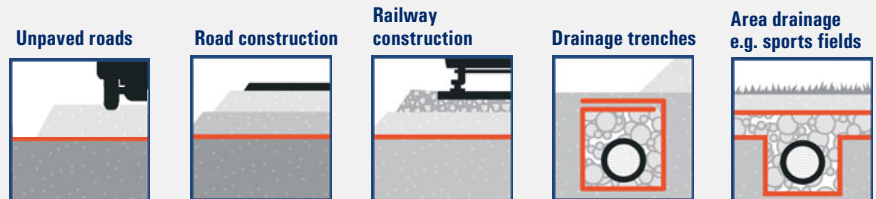
The grade selection chart below gives just a rough guidance. For a detailed design please contact our technical staff, or use our special design software. Obtain your free copy of the TenCate design CD by emailing the relevant sales office overleaf, or use our special design software on our homepage www.tencate.com/geosynthetics.



The advantages at a glance:

- Stabilizes base courses over low bearing capacity subgrades
- Maintains the function of drainage systems
- High long-term resistance and robustness
- Technical support by TenCate Service Team

Applications



TS - Separation & Filtration Nonwovens - Technical Data

Properties [Standard]	Unit	TS 10 (4.01)	TS 20 (4.01)	TS 30 (4.01)	TS 40	TS 50	TS 60	TS 65	TS 70	TS 80	
Mechanical Properties											
Tensile strength	MD	kN/m	8	10	12	14	16	20	22	25	29
	CD	kN/m	8	10	12	14	16	20	22	25	30
Elongation at max. load	MD	%	90	90	90	100	100	100	100	100	100
	CD	%	75	75	75	40	40	40	40	40	40
Energy value	(MD + CD)/2	J/mm ²	48	58	71	75	84	110	120	134	156
Static puncture resistance (CBR-Test)		N	1240	1500	1800	2100	2350	3050	3350	3850	4400
Cone drop test (hole-Ø)		mm	26	24	20	24	22	19	17	15	13
Hydraulic Properties											
Permeability vertical		l/m ² s (mm/s)	130	115	100	100	90	80	70	60	55
Opening size O ₉₀		µm	120	105	100	100	100	95	95	90	90
Identification Properties											
Thickness	2 kPa	mm	0.8	0.9	1.2	1.8	1.9	2.4	2.5	2.9	3.3
Mass per unit area		g/m ²	105	125	155	180	200	260	285	325	385
Forms of Supply											
Width		m	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4
Length		m	300	250	225	200	175	135	125	100	90

The values given are average values obtained in our laboratories and in testing institutes. The right is reserved to make changes without notice at any time.

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