

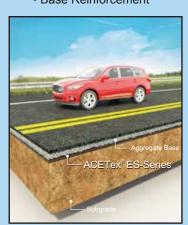
ACETex<sup>®</sup> ES-Series woven geotextiles, fabricated with self-developed high tenacity polypropylene yarns and well-designed texture, perform exceptionally well in separation, filtration, and reinforcement functions altogether to enhance the safety, reliability and serviceability of paved and unpaved roadways.

With high tensile strength (biaxial tensile strengths up to 200 kN/m) and modulus of the geotextiles, which provide structural stability and distribute load uniformly at low elongation to increase the load-carrying capacity of the system, the ACETex ES-Series are commonly placed between road base and subgrade . Furthermore, by increasing permeability with appropriate pore sizes, ACETex ES-Series achieve separation and filtration simultaneously to stabilize the structure of the roadway system in the long term. Moreover, ACETex ES-Series are available in various tensile strengths and hydraulic properties to meet diverse project engineering needs.

### **APPLICATIONS**

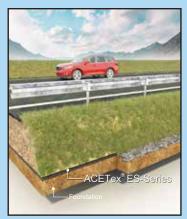
#### Roadway / Railway

- Subgrade Stabilization
- Base Reinforcement



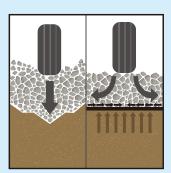
#### **Embankment**

Soft Foundation Stabilization



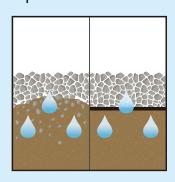
# BENEFITS from the Integrated FUNCTIONS of the Product

#### Reinforcement



- Increase bearing capacity
- Add membrane support
- · Provide lateral restraint

#### Separation & Filtration



- Prevent mixture of base course and subgrade materials
- · Retain fine particles
- Mitigate waterbed effect

## Safety

Reduce rutting

Reduce inhomogeneous settlement

Improve trafficability

## **Economical**

Extend road service life

Reduce required base course materials

Lower maintenance costs

## **Applicability**

Use in heavy rainfall/ high water table areas

Use with some difficult soils

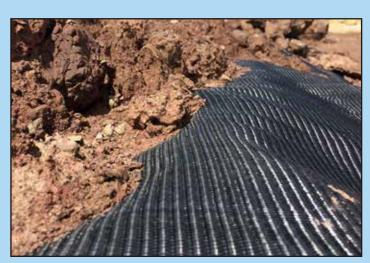
Allow permeable pavement systems

## ACETex® ES-Series woven geotextiles

for Base Reinforcement and Subgrade Stabilization

ACE Geosynthetics is dedicated to developing and manufacturing geotextiles, and providing wide technical service in the realm of geotechnical engineering for decades. The experience and expertise accumulated in these activities are the key factors to make ACETex<sup>®</sup> ES Series successful products, which are well-functional, reliable, and durable with high cost-effectiveness.





Mechanical Index Properties	SI Unit	ES420	ES510	ES520	ES710	ES720	ES815	Test
Tensile strength at 2% strain-MD	kN/m	9	10	10	10	7	10	ASTM D4595
Tensile strength at 2% strain-CD	kN/m	10	10	20	20	30	25	ASTM D4595
Tensile strength at 5% strain-MD	kN/m	24	25	30	35	21	25	ASTM D4595
Tensile strength at 5% strain-CD	kN/m	30	25	40	45	70	65	ASTM D4595
Mechanical Performance Properties								
UV Resistance -Retained Strength(500 hr)	%	90	90	90	90	90	90	ASTM D4355
Hydraulic Properties								
Permittivity (50mm head) Apparent Opening Size(O95)	1/sec mm	1 0.425	0.4 0.425	1 0.425	0.4 0.425	1 0.425	0.4 0.425	ASTM D4491 ASTM D4751

#### Note:

The values given are indicative and correspond to an average results obtained in our laboratories and testing institutes. The right is reserved to make changes without notice.

#### Disclaimer:

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