ACECompo™ GS

ACE Geosynthetics

Elevate Durability and Structural Integrity with ACECompo™ GS Series: Comprehensive Geocomposite Solution

ACECompo™ is the trademark representing ACE Geosynthetics' comprehensive range of geocomposite products. At the heart of the GS series is a harmonious integration: fiberglass yarns seamlessly combined with a more pronounced layer of needle-punched polyester nonwoven geotextile. These fiberglass yarns deliver an amplified reinforced force. This force is adept at mitigating deformation challenges, ensuring structures or terrains fortified with ACECompo™ GS geocomposites remain robust and resilient. Meanwhile, the nonwoven geotextiles of the GS series don't merely enhance filtration, separation, and drainage. They provide a versatile range of functionalities, reinforcing their role in the product. Especially in the realm of asphalt pavement reinforcement, these geotextiles showcase a heightened ability to absorb bituminous materials, intensifying the bond with asphalt layers. This multifunctional versatility allows ACECompo™ GS geocomposites to cater to diverse engineering needs, ranging from amplifying the sturdiness of asphalt or concrete pavements to specialized endeavors such as base reinforcement and strategic soil stabilization.

Advancing Pavement Performance with ACECompo™ GS Series: Reinforcement, Separation, and Filtration in One

Product Properties	Test Method	Units	GS 50-II	GS 100-II
Mechanical Index Properties				
Material			Glassfiber Yarns with Polyester Needle Punched Nonwoven Geotextile	
Mesh Size, -10%	Measured	mm	25.4 × 25.4	25.4 × 25.4
Tensile Strength-MD, -10%	ASTM D4595	kN/m	50	100
Tensile Strength-CD, -10%	ASTM D4595	kN/m	50	100
Tensile Elongation-MD	ASTM D4595	%	≤4	≤4
Tensile Elongation-CD	ASTM D4595	%	≤4	≤4
Dimensional Characteristics				
Length		m	50	50
Width		m	2 ~ 5.3	2 ~ 5.3

Note:

1. ACE Geosynthetics reserves the right to modify or update any content on this specification sheet without any further notice.



APPLICATION

ACECompo™ GS Provides Versatile Applications, Including:

Roadway and Railway Construction:

- Base Reinforcement
- Pavement Improvement
- Subgrade Stabilization
- Enhanced Road Rehabilitation

Broadening the Horizons of Infrastructure Reinforcement

Anchoring itself in Asphalt and Concrete Layer Reinforcement for pavement, ACECompo™ GS sets new benchmarks in sustaining modern infrastructural challenges. Through its distinctively crafted design and the emphasized interplay between fiberglass yarns and nonwoven geotextile, it provides comprehensive support. This geocomposite not only bolsters the endurance of roads and pavements but also identifies and harnesses potential avenues for a myriad of applications. With roadways and pavements experiencing a substantial increase in lifespan courtesy of ACECompo™ GS, the downstream advantages become evident. Reduced maintenance intervals and lowered associated expenditures are notable benefits. This directly translates to substantial economic advantages and a notably diminished environmental impact, as the reduced need for interventions means fewer resource consumption and minimized carbon emissions. From strengthening well-traveled roads to pioneering applications in new terrains, ACECompo™ GS emerges as an expansive and reliable solution, signaling advancements in sustainable civil engineering practices.

Why Choose ACECompo™ GS?

Features:

- Very Low Elongation and High Tensile Modulus
- Endure High Temperatures during the Asphalt Layer Construction Process
- Better Asphalt Absorption for A Stronger Bond to the Asphalt Layer
- Simple and Rapid Installation

Benefits:

- Prolongs Pavement Lifespan
- Reduces Repair and Maintenance Costs
- Minimizes Traffic Disruptions
- Enhances Road Safety Standards