

# DECLARATION OF PERFORMANCE

Nº: 0020 – GEOTEXTIL – 20130701

## GEOTESAN NT 46

Nonwoven geotextile makes up 100% polypropylene fibres joined by a needled process and a later thermofixation.  
The traceability is warranted because of the batch and serial number that you can see in the roll's label.

**Uses: Drainage-Filtration-Reinforcement-Separation-Protection**

**Manufactured by GEOTEXAN, SA.**

Avd. Concha Espina, nº 5, 21660, Minas de Riotinto, Huelva.  
Spain.

Phone: +34 959 590305 Fax: +34 959 590338 geotexan@geotexan.com

**Evaluation System: 2+**

**Bureau Veritas Certificación, SA – 1035**

**Assessment and evaluation of factory production control**

**System 2+**

**1035 – CPR – ES033858 - A, 31th October of 2014**

ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONISED NORMS
Mass per unit area (EN ISO 9864)	400,00 g/m <sup>2</sup> (+/- 10,00%)	EN 13249:2017
Tensile strength (EN ISO 10319) MD: Machine Direction; CMD: Cross Machine Direction	MD 31,50 kN/m (-13,00%) CMD 32,00 kN/m (-13,00%)	EN 13250:2017
Elongation (EN ISO 10319)	MD 60,00% (+/- 8,00) CMD 60,00% (+/- 9,00)	EN 13251:2017
Dynamic perforation resistance (EN ISO 13433)	6,00 mm (+5,0)	EN 13252:2017
Static puncture resistance (CBR) (EN ISO 12236)	5,40 kN (-0,74)	EN 13253:2017
Characteristic opening size (EN ISO 12956)	56,0 µm (+/- 17,0)	EN 13253:2017
Water permeability normal to the plane (EN ISO 11058)	0,043 m/s (-0,013)	EN 13254:2017
Flow capacity in the plane (EN ISO 12958) Gradient q20/1,0 Gradient q200/1,0	9,53*10 <sup>-6</sup> m <sup>2</sup> /s (-30,00%) 3,46*10 <sup>-6</sup> m <sup>2</sup> /s (-30,00%)	EN 13255:2017
Thickness under 2 kPa (EN ISO 9863/1)	3,06 mm (+/-11,8%)	EN 13256:2017
Durability (EN ISO 12224)	To be covered in the day of installation for reinforcing and in 2 weeks for other application. Avoid to put the geotextiles in contact with other products that they can damage or modify them.	EN 13257:2017
Oxidation resistance (EN ISO 13438)	Predicted to be durable for a minimum of 25 years in natural soil with 4 < pH < 9 and temperatures < 25°C	EN 13265:2017
Protection effectiveness (EN 13719)	0,70% (+0,14)	

The product's performance identified like **GEOTESAN NT 46** is in conformity with the declared performance in the upper board. This declaration of performance is issued the conformity with Regulation EU Nº 305/2011 under the sole responsibility of GEOTEXAN, SA. Signed for and on behalf of GEOTEXAN, SA by:

Jesús Madrid Soldán  
Quality Manager of Geotexan, SA.

Minas de Riotinto, 13th July of 2017.

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