

# NorGeoSpec 2012 Product Certificate

## Quality Product Certification Separation and Filtration

This product has been found to be fit for use in accordance with NorGeoSpec 2012 System for the above given function.

<b>Certificate no.:</b>	NGS-50156
<b>Date:</b>	03.02.2019
<b>Valid until:</b>	02.02.2021
<b>Manufacturer:</b>	THRACE NG
<b>Product:</b>	100NW
<b>Product Type:</b>	GTX-N
<b>Raw material:</b>	PP
<b>Function:</b>	Separation and Filtration

Issued by



Christian Recker, SINTEF project manager

Approved by



Arnstein Watn, Head of the Technical committee



The products are regularly audited and tested to verify that the characteristics fulfil the NorGeoSpec 2012 Rev.: 01/14.12.2016 requirements.  
Approved by the NorGeoSpec Technical committee: 03.02.2019

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Characteristic	Standard		Unit	Declared value	Max. tolerance	Certification value
Mass per unit area	EN ISO 9864		g/m <sup>2</sup>	85	± 9	<b>77 - 94</b>
<b>Mechanical tests</b>						
Tensile strength	MD	EN ISO 10319	kN/m	6.70	- 0.67	<b>6.03</b>
	CMD	EN ISO 10319	kN/m	6.70	- 0.67	
Tensile strain at tensile strength	MD	EN ISO 10319	%	40.0	- 8.0	<b>37.0</b>
	CMD	EN ISO 10319	%	50.0	- 8.0	
Static puncture test	EN ISO 12236		KN	0.900	- 0.090	<b>0.810</b>
Dynamic perforation resistance	EN ISO 13433		mm	35	7	<b>42</b>
Energy index	NorGeoSpec 2012		kN/m	1.2	0.0	<b>1.2</b>
<b>Hydraulic tests</b>						
Permeability normal to the plane without load	EN ISO 11058		m/s	0.100	- 0.030	<b>0.070</b>
Characteristic opening size	EN ISO 12956		µm	120	± 36	<b>84 - 156</b>
<b>Durability (Declared value)</b>						
Service life			years	<input type="checkbox"/> 25	<input type="checkbox"/> 50	<input type="checkbox"/> 100

Quality Product Certification: Separation and Filtration

Application profile: **1**