

Quality Product CertificationSeparation and Filtration

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

Certificate no.:	NGS-50245
Date:	03.02.2021
Valid until:	02.02.2023
Manufacturer:	THRACE NG
Product:	200NW
Product Type:	GTX-W
Raw material:	РР
Function:	Separation and Filtration

Issued by

Christian Recker, SINTEF Project Manager

Approved by

Arnstein Watn, Head of the Technical Committee

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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: 19.03.2021



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Quality Product Certification				DoP ¹⁾	NGS			
Characteristic		Test method	Unit	DoP declared mean value	NGS declared mean value ²⁾	NGS max. tolerance ³⁾	NGS declared tolerance ⁴⁾	NGS control limits ⁵⁾
Mass per unit area		EN ISO 9864	g/m²	(-)	190	± 19.0	± 19.0	171.0-209.0
Tensile strength	MD	EN ISO 10319	kN/m	16.70	16.70	-1.67	-1.67	≥ 15.03
	CMD	EN ISO 10319	kN/m	16.70	16.70	-1.67	-1.67	
Tensile strain at tensile strength	MD	EN ISO 10319	%	45.0	45.0	-9.0	-9.0	≥ 36.0
	CMD	EN ISO 10319	%	45.0	45.0	-9.0	-9.0	
Static puncture test (CBR test)		EN ISO 12236	kN	(-)	2.350	-0.235	-0.235	≥ 2.115
Dynamic perforation test		EN ISO 13433	mm	23	23	+5.8	+4.0	≤ 27.0
Energy index		NorGeoSpec 2012	kN/m	(-)	3.2		0.0	≥ 3.2
Water permeability normal to the plane, without load		EN ISO 11058	m/s	0.060	0.060	-0.0180	-0.0180	≥ 0.0420
Characteristic opening size		EN ISO 12956	μm	90	90	± 27.0	± 27.0	63.0-117.0
Service life			years	100				

¹⁾ Manufacturer's Declaration of performance acc. hEN standards dated 05.01.2015

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²⁾ Manufacturer's declared values

³⁾ Max. possible NorGeoSpec tolerance according to table 1 Part 1 and Part 2 of the guideline

⁴⁾ Manufacturer's declared tolerance; the tolerance for the NorGeoSpec certificate shall be equal or less than the "NGS max. tolerance" (see table 1 Part 1 and Part 2 of the guideline)

⁵⁾ NorGeoSpec control limit values regarding fitness for use; these "NGS control limits" are calculated based on the "NGS declared mean values" and the "NGS declared tolerances"; the product has to satisfy these "NGS control limits" during the NorGeoSpec certification process and random product testing