

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-50219 |
|------------------|---------------------------|
| Date: | 16.08.2020 |
| Valid until: | 15.08.2022 |
| Manufacturer: | Juta |
| Product: | geoNETEX NGS 2 |
| Product Type: | GTX-N |
| Raw material: | PP |
| Function: | Separation and Filtration |

Issued by

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Approved by

Arnstein Watn, Head of the Technical Committee

NorGeoSpec 2012

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: 27.01.2021



Certificate no.: NGS-50219

Quality Product Certification Separation and Filtration

| 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 | (-) | 140 | ± 14.0 | ± 14.0 | 126.0-154.0 |
| Tensile strength | MD | EN ISO 10319 | kN/m | 10.50 | 10.50 | -1.05 | -1.00 | ≥ 10.15 |
| | CMD | EN ISO 10319 | kN/m | 12.00 | 12.00 | -1.20 | -1.20 | |
| Tensile strain at tensile strength | MD | EN ISO 10319 | % | 55.0 | 55.0 | -11.0 | -11.0 | ≥ 48.0 |
| | CMD | EN ISO 10319 | % | 65.0 | 65.0 | -13.0 | -13.0 | |
| Static puncture test (CBR test) | | EN ISO 12236 | kN | 2.000 | 2.000 | -0.200 | -0.200 | ≥ 1.800 |
| Dynamic perforation test | | EN ISO 13433 | mm | 28 | 28 | +7.0 | +7.0 | ≤ 35.0 |
| Energy index | | NorGeoSpec 2012 | kN/m | (-) | 2.1 | | 0.0 | ≥ 2.1 |
| Water permeability normal to the plane, without load | | EN ISO 11058 | m/s | 0.050 | 0.050 | -0.0150 | -0.0150 | ≥ 0.0350 |
| Characteristic opening size | | EN ISO 12956 | μm | 65 | 65 | ± 19.5 | ± 19.0 | 46.0-84.0 |
| Service life | | | years | 50 | | | | |

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

Quality Product Certification: Separation and Filtration

Application profile: 2

²⁾ Manufacturer's declared values

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

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)

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