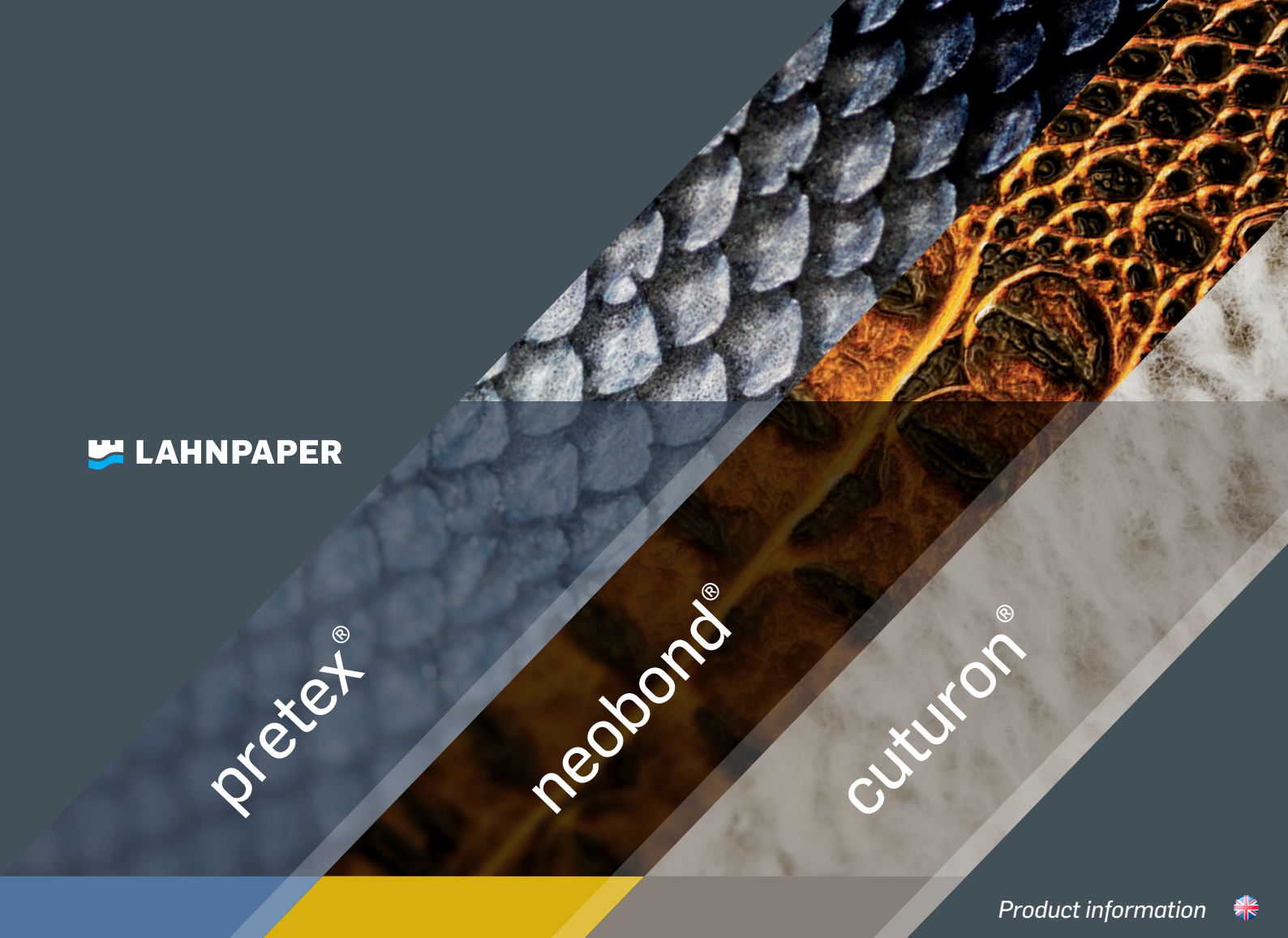
LAHNPAPER
pretex®
neobond®
cuturon®
Product information

pretex®

impregnated
special papers

neobond®

robust synthetic
fibre papers

cuturon®

versatile
nonwovens

PRODUCT SPECIFICATION

High-quality, impregnated special paper: for those special cases where normal paper just isn't robust enough – when paper comes into contact with moisture, for example.

To manufacture this product, we use selected pulp and synthetic fibres (polyamide and polyester). A special impregnation procedure gives the paper the required strength.

pretex® is available two side coated (standard) or uncoated (copy+laser). We also offer an extra strong grade that is coated on two sides, with a higher proportion of synthetic fibres (manual). For labels and special applications, we also supply grades that are coated on one side on request.

We can provide **pretex**® with security features on request (fluorescent and non-fluorescent fibres).

All **pretex**® grades are FSC®-certified available.

Durable and robust synthetic fibre paper: ideal for anything that that needs extreme durability in tough conditions (e.g. documents).

neobond® grades consist of a combination of selected pulp and synthetic fibres, which is reinforced by means of a special impregnation process. Coating on both sides ensures good printability.

neobond® is available with security features (such as water marks, fluorescent fibres and reagents).

High-quality and versatile nonwovens: the practical alternative to textiles and other materials for tough applications (e.g. steel industry production labels).

cuturon® nonwovens are manufactured and impregnated in a wetlaid process, using pulp and synthetic fibres.

cuturon® is available with PE coating on one side.

We can provide **cuturon**® with security features on request (fluorescent and non-fluorescent fibres).

For information on printing and processing, as well as reference sources, please visit www.lahnpaper.de

APPLICATION EXAMPLES

Maps of various kinds, educational and visual charts, technical documents, race numbers, maps used in outdoor areas, posters, large-format advertising, pennants, carrier bags, brochures and inserts, material labels, tags, menus and place mats, passes, plant labels, self-adhesive labels, food labels.

Index pages, hard-wearing documents (driving licences, certificates), identification cards (vaccination cards and emergency health cards, membership cards and ID badges), facsimiles, educational and visual charts, luggage tags, admission cards, high-quality catalogues, labels, text and cover.

Labels for home textiles, mattresses, carpets, plants, flags and pennants, race numbers, posters, banners/POS items, place mats, carrier bags, gift packaging, decorative packaging, décor, wristbands.

PROPERTIES

- water-resistant
- extremely durable
- good light and colour fastness
- high mechanical resistance (wet and dry)
- very good ageing resistance

- unique feel
- extremely durable, particularly where tear resistance and folding strength (wet or dry) are concerned
- light and colour fastness
- excellent dimensional stability

- textile feel
- good printability
- extremely durable
- permeable (air and moisture)
- high temperature resistance
- water-resistant

- high temperature resistance
- resistant to many chemicals and solvents
- suitable for direct contact with foodstuffs (pretex® food)

- very good ageing resistance
- high temperature resistance
- water-resistant
- resistant to many chemicals and solvents

- resistant to many chemicals and solvents
- resistant to washing and dry cleaning (cuturon® soft)
- extremely tear resistant (cuturon® X-treme)
- suitable for direct contact with foodstuffs (cuturon® 34 g/m^2, 47 g/m^2)

ENVIRONMENT

We do not use any organic solvents, PVC, formaldehyde or ODC compounds during production.
The air and waste water emissions generated during production conform to the latest technological standards.
LAHNPAPER is certified to DIN EN ISO 14001.

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PRODUCT RANGE

Our products are available in reels and sheets. Different basis weights or colours are available on request.

Standard sizes

32 x 45 cm	45 x 64 cm	50 x 70 cm	61 x 86 cm	63 x 88 cm	64 x 90 cm	70 x 100 cm

Other sizes available on request

Maximum reel width
white: 255 cm, coloured: 122 cm

Maximum reel width
white and coloured: 122 cm
neobond® 60.200 white: 255 cm

Maximum reel width
cuturon®, cuturon® PE: 252 cm
cuturon® soft: 210 cm
cuturon® X-treme: 255 cm

GRADES

pretex® standard
two side coated

white
100 g/m² | 120 g/m² | 150 g/m² | 200 g/m² | 250 g/m²

coloured
150 g/m²

pretex® food
two side coated, suitable for direct contact with foodstuffs

white
120 g/m²

pretex® manual
two side coated, extra strong

white
120 g/m²

pretex® Inkjet
one side inkjet coated

white
143 g/m²

pretex® high white
two side coated

high white
150 g/m²

pretex® copy + laser
uncoated

white
90 g/m² | 120 g/m²

neobond® standard
two side coated

white
100 g/m² | 150 g/m² | 200 g/m² | 220 g/m²

coloured
200 g/m²

neobond® super
two side coated
increased tear resistance

white
200 g/m²

neobond® safe
two side coated,
with UV-sensitive fibres

white
150 g/m²

neobond® go
special impregnation, uncoated

white
300 g/m²

cuturon®
impregnated, suitable for direct contact with foodstuffs

white
34 g/m² | 47 g/m²

cuturon® PE
PE coating on one side

white
49 g/m²

cuturon® soft
high strength,
textile character

white
115 g/m²

cuturon® X-treme
special impregnation, extremely high edge tear and tear resistance

white
170 g/m²

CONTACT WITH FOOD

pretex® food is permitted for direct contact with foodstuffs.

White **pretex®** grades are harmless when used in applications involving indirect contact with foodstuffs. They are also harmless if they accidentally come into direct contact with foodstuffs for brief periods.

We will be happy to send you a copy of our ISEGA certificate on request.

White **neobond®** grades are harmless when used in applications involving indirect contact with foodstuffs. They are also harmless if they accidentally come into direct contact with foodstuffs for brief periods.

We will be happy to send you a copy of our ISEGA certificate on request.

neobond® go is compliant with DIN EN 71 (toys for children over 3 years).

cuturon® (34 g/m², 47 g/m²) is permitted for direct contact with foodstuffs.

We will be happy to send you a copy of our ISEGA certificate on request.

cuturon® soft conforms to the requirements of Öko-Tex (testing system for textiles) product classes II–IV.

RESISTANCE TO SOLVENTS AND OTHER CHEMICALS

Our products are resistant to many chemicals and solvents. We recommend carrying out tests on a case-by-case basis.

TEMPERATURE RESISTANCE

Our products demonstrate a high level of temperature resistance. However, a brief increase in the stress placed on the material by temperature (up to 180°C) will not damage the material's properties. Temperatures above 180°C may lead to surface discolouration. We recommend carrying out tests on a case-by-case basis, as levels of intensity, duration and type of stress may vary considerably.

AGEING RESISTANCE

The coated **pretex®** grades demonstrate ageing resistance to DIN EN ISO 9706 and DIN 6738. The uncoated grades demonstrate ageing resistance to DIN 6738.

pretex® also features a high level of UV resistance. We employ optical brighteners in **pretex® high white**.

neobond® demonstrates ageing resistance to DIN EN ISO 9706 and DIN 6738 as well as featuring a high level of UV resistance. We do not use any optical brighteners.

Due to the product structure, it can be assumed that **cuturon®** demonstrates ageing resistance to DIN 6738. Therefore, no testing is carried out in this respect. We employ optical brighteners in **cuturon® soft.**

For information on printing and processing, as well as reference sources, please visit www.lahnpaper.de

DISPOSAL AND COMPOSTABILITY

pretex® is partly biodegradable. Biological treatment will break down **pretex®** with the exception of its synthetic components, which means that marketable compost cannot be produced.

neobond® is partly biodegradable. Biological treatment will break down **neobond®** with the exception of its synthetic components, which means that marketable compost cannot be produced.

Depending on the grade concerned, **cuturon®** is partly biodegradable. Biological treatment will break down **cuturon®** with the exception of its synthetic components, which means that marketable compost cannot be produced.

Due to its high heating value, waste should preferably be utilised thermally as refuse-derived fuel.

Waste can be disposed of as residual waste without hesitation. Before it is sent to landfill, the waste is reduced as far as possible during treatment processes (mechanical-biological, thermal). No by-products that are harmful to the environment are produced during pre-treatment or landfilling.

Due to its strength properties and synthetic components, our products are not suitable for recycling. Therefore, larger quantities of waste should not be disposed of as used paper without checking with the relevant waste disposal company.

FURTHER PROCESSING

- varnishing
- folding
- perforating
- punching (except crown punching)
- creasing
- grooving
- drilling
- glueing
- sewing
- eye-letting
- embossing (e.g. blind or hot film embossing)

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SUITABILITY MATRIX

	sheet offset	reel offset	UV offset	heatset-offset	screen printing	flexo printing	laser[1]	HP Indigo [2]	inkjet	UV inkjet
pretex®										
standard	•	•	•	•	•	•	•	• [2]		•
food	•	•	•	•	•	•	•	•		•
manual	•	•	•	•	•	•	•	•		•
Inkjet									•	•
high white	•	•	•	•	•	•	•	•		•
copy + laser	•	•	•	•	•	•	•			•
neobond®										
standard	•	• [3]	•		•	•	•	• [4]		•
super	•	•	•		•	•	•			•
safe	•	•	•		•	•	•			•
go	•	•	•		•		•			
cuturon®										
34 + 47 g/m²	•	•	•		•	•				
PE	•	•	•		•	•				
soft	• [5]	•	• [5]		• [5]	•	•			•
X-treme	•	•	•		•		•			

[1] more information in the "laser printability experience list" at www.lahnpaper.de

[2] except pretex® coloured

[3] except neobond® standard white 100 – 150 g/m²

[4] only neobond® standard white 200 – 220 g/m²

[5] with interleaving paper for formats 70 x 100 cm

This information is based on our knowledge and experiences in practice. Due to the wide range of influences our products could be exposed to during processing and when they are in use, we recommend subjecting them to your own tests. We reserve the right to make changes due to technical progress or business-related developments. A legally binding assurance of certain properties cannot be derived from the information we provide.

LAHNPAPER

LAHNPAPER GmbH · Auf Brühl 15-27 · 56112 Lahnstein · Germany
T +49 2621 177-0 · F +49 2621 177-609 · www.lahnpaper.de · info@lahnpaper.de

printed on **pretex®** 50.100

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11/2018