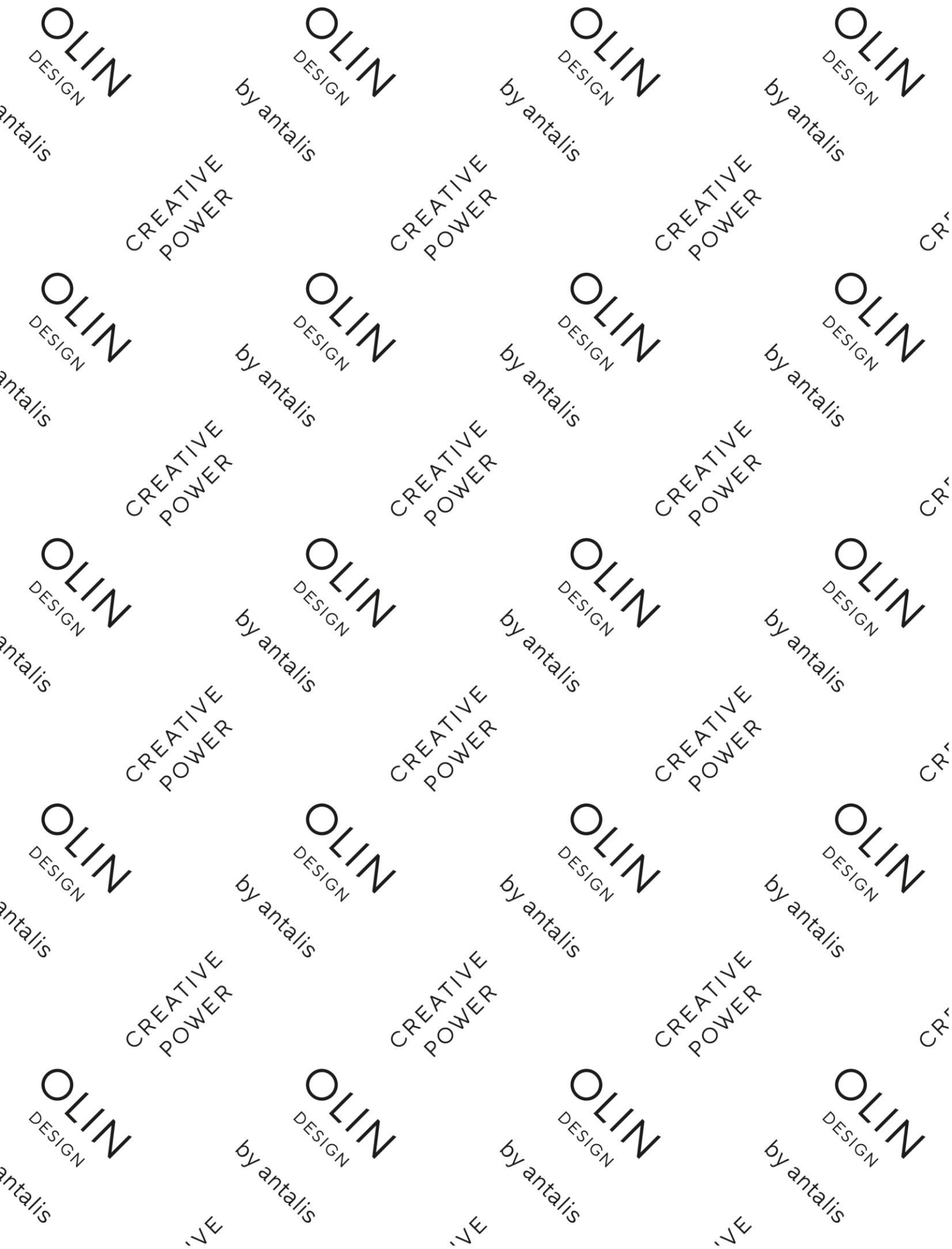
OLIN
DESIGN
by antalis
CREATIVE
POWER

November 2024

OLIN Design is a comprehensive range of premium uncoated papers and boards that offers perfect colour reproduction with a range of coordinated envelopes. The products are available in Smooth, Regular and Rough finish in 4 shades of white.

OLIN Design is perfect for corporate communication, annual reports, business cards, letterheads, order forms, programmes, invitations, leaflets, pharmaceutical instructions, folders, books, luxury packaging, etc.

Printing Guidelines

Preparation
- Store at room temperature (17-23°C), at a relative humidity of 50%, from 24 to 48 hours before use.
- Protect the paper against any risk of moisture during the whole process. In particular, unwrap the paper only at the last moment before printing and rewrap it immediately after the print run.
- Do not use set-off powder when printing.

Pre-press
- Large printed surface: under colour-removal necessary.
- Intense full colours black: Blue support (40%)
- Recommended colours: one or several support colours recommended
- Screen ruling: 150 max.

Printing
- Litho offset: Suitable.
- Laser printing: Fully suitable from 80g to 150g. Use appropriate inks.
- Pre-printing: Fully suitable from 80g to 150g. Use appropriate inks that are laser compatibles.
- Screen printing: suitable.

Finishing and conversion
- Embossing & die-stamping: all techniques can be used.
- Hot foil stamping: no precautions are necessary when using conventional foil stamping techniques. Foil blockers can recommend the best foil to suit the image and paper chosen.
- Varnishing: possible but trials to be made first.
- Lamination: not recommended.
- Scoring: starting at 150g, scoring with counterpart.
- Cutting: it is recommended to wait 24hours after the printing. Ensure that the blade of the guillotine is sharp enough in order to avoid dust deposits.

ECF ISO 14001 ISO 9706 ISO 9001

pH NEUTRAL

FSC www.fsc.org MIX Paper from responsible sources FSC® C101533

CREATIVE POWER

by antalis

November 2024

REGULAR Ultimate White

Property & Unit	Standard														
GSM	ISO 536	**50**	**60**	**70**	**80**	**90**	**100**	**120**	**150**	**170**	**200**	**240**	**300**	**350**	**400**
Thickness (µm)	ISO 534	71	85	99	110	124	138	163	204	231	272	322	400	465	530
Bulk (cm3 /g)	ISO 534	1.42	1.42	1.41	1.38	1.38	1.38	1.36	1.36	1.36	1.36	1.34	1.33	1.33	1.33
Roughness (ml/min)	ISO 8791-2	200	200	150	245	245	245	245	245	245	245	300	300	245	245
Absolute Humidity (%H2o)	ISO 20287	4.5	4.8	5.0	5.0	5.0	5.0	5.5	5.5	5.5	6.0	6.0	6.5	6.5	6.5
Relative Humidity (% in aire)	Sword measuring	30	35	38	38	38	38	44	44	44	48	48	50	50	50
Opacity (%)	ISO 2471	86	88	92	94	96	96.5	97.5	98.5	99	>99	>99	>99	>99	>99
Formation (index on 120)	Kajaani measuring	90	90	90	100	100	98	98	98	98	98	-	-	-	-
Whiteness CIE	ISO 11475	170													

These values are to be considered only as indications and are subject to change according to trade tolerances in the quality specification. Issue date: November 2024

CREATIVE POWER

by antalis

November 2024

REGULAR Bright White

Property & Unit	Standard											
GSM	ISO 536	**90**	**100**	**120**	**130**	**150**	**170**	**200**	**240**	**300**	**350**	**400**
Thickness (µm)	ISO 534	120	133	160	173	200	226	270	317	391	432	495
Bulk (cm3 /g)	ISO 534	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.33	1.30	1.23	1.23
Roughness (ml/min)	ISO 8791-2	250	250	250	250	250	250	250	250	250	250	200
Absolute Humidity (%H2o)	ISO 20287	56	5.6	5.6	5.6	5.6	5.6	6.5	6.5	6.5	6.5	6.5
Relative Humidity (% in aire)	Sword measuring	45	45	45	45	45	45	50	50	50	50	50
Opacity (%)	ISO 2471	92	93,5	95	95	97	98	98	>99	>99	>99	>99
Formation (index on 120)	Kajaani measuring	100	100	100	100	100	100	100	-	-	-	-
Whiteness CIE	ISO 11475						151					

These values are to be considered only as indications and are subject to change according to trade tolerances in the quality specification. Issue date: November 2024

CREATIVE POWER

by antalis

November 2024

REGULAR Soft White

Property & Unit	Standard											
GSM	ISO 536	**80**	**90**	**100**	**120**	**150**	**170**	**200**	**240**	**300**	**350**	**400**
Thickness (µm)	ISO 534	109	122	132	157	194	219	258	307	374	440	504
Bulk (cm3 /g)	ISO 534	1.36	1.36	1.32	1.31	1.29	1.29	1.29	1.28	1.25	1.26	1.26
Roughness (ml/min)	ISO 8791-2	200	200	200	200	200	200	200	200	200	200	200
Absolute Humidity (%H2o)	ISO 20287	4.6	4.6	5.0	5.5	5.5	5.5	6.0	6.0	6.5	6.5	6.5
Relative Humidity (% in aire)	Sword measuring	32	32	38	44	44	44	48	48	50	50	50
Opacity (%)	ISO 2471	90	91	93	94,5	96	97	>98	>99	>99	>99	>99
Whiteness CIE	ISO 11475						74					

These values are to be considered only as indications and are subject to change according to trade tolerances in the quality specification. Issue date: November 2024

CREATIVE POWER

by antalis

November 2024

REGULAR Warm White

Property & Unit	**Standard**					
GSM	ISO 536	**90**	**120**	**170**	**240**	**300**
Thickness (µm)	ISO 534	118	154	216	298	360
Bulk (cm3 /g)	ISO 534	1.31	1.28	1.27	1.24	1.20
Roughness (ml/min)	ISO 8791-2	150	180	180	180	180
Absolute Humidity (%H2o)	ISO 20287	5.0	5.5	5.5	6.0	6.0
Whiteness CIE	ISO 11475					

These values are to be considered only as indications and are subject to change according to trade tolerances in the quality specification. Issue date: November 2024

CREATIVE POWER

by antalis

November 2024

REGULAR DIGITAL Ultimate White

Dry Toner ®

Certified for **HP Indigo**

EU Ecolabel www.ecolabel.eu

Property & Unit	Standard					
GSM	ISO 536	**120**	**200**	**240**	**300**	**350**
Thickness (µm)	ISO 534	162	271	326	380	445
Bulk (cm3 /g)	ISO 534	1.35	1.35	1.36	1.27	1.27
Roughness (ml/min)	ISO 8791-2	245	245	245	245	245
Absolute Humidity (%H2o)	ISO 20287	5.3	5.3	5.3	6.0	6.0
Relative Humidity (% in aire)	Sword measuring	42	42	42	48	50
Opacity (%)	ISO 2471	98	>99	>99	>99	>99
Formation (index on 120)	Kajaani measuring	90	90	-	-	-
Whiteness CIE	ISO 11475			170		

These values are to be considered only as indications and are subject to change according to trade tolerances in the quality specification. Issue date: November 2024

ECF ISO 14001 ISO 9706 ISO 9001

pH NEUTRAL

FSC www.fsc.org MIX Paper from responsible sources FSC® C101533

CREATIVE POWER

by antalis

November 2024

SMOOTH Ultimate White

Property & Unit	Standard								
GSM	ISO 536	**90**	**100**	**120**	**150**	**200**	**240**	**300**	**350**
Thickness (µm)	ISO 534	96	105	122	150	194	240	300	350
Bulk (cm3 /g)	ISO 534	1.07	1.05	1.02	1.00	0.97	1.00	1.00	1.00
Roughness (ml/min)	ISO 8791-2	120	120	120	120	120	75	75	75
Absolute Humidity (%H2o)	ISO 20287	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Relative Humidity (% in aire)	Sword measuring	50	50	50	50	50	50	50	50
Opacity (%)	ISO 2471	92	94	96	>99	>99	>99	>99	>99
Formation (index on 120)	Kajaani measuring	115	115	115	115	110	-	-	-
Whiteness CIE	ISO 11475	167							

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CREATIVE POWER

by antalis

November 2024

SMOOTH Bright White

Property & Unit	Standard						
GSM	ISO 536	**100**	**120**	**150**	**200**	**300**	**350**
Thickness (µm)	ISO 534	119	140	174	229	345	403
Bulk (cm3 /g)	ISO 534	1.19	1.17	1.16	1.15	1.15	1.15
Roughness (ml/min)	ISO 8791-2	100	100	100	100	100	100
Absolute Humidity (%H2o)	ISO 20287	5.6	5.6	5.6	6.5	6.5	6.5
Relative Humidity (% in aire)	Sword measuring	45	45	45	50	50	50
Opacity (%)	ISO 2471	93	95	97	99	>99	>99
Formation (index on 120)	Kajaani measuring	100	100	100	100	100	100
Whiteness CIE	ISO 11475	151					

These values are to be considered only as indications and are subject to change according to trade tolerances in the quality specification. Issue date: November 2024

CREATIVE POWER

by antalis

November 2024

SMOOTH Soft White

Property & Unit	Standard			
GSM	ISO 536	**100**	**240**	**300**
Thickness (µm)	ISO 534	119	276	345
Bulk (cm3 /g)	ISO 534	1,19	1,15	1,15
Roughness (ml/min)	ISO 8791-2	100	100	100
Absolute Humidity (%H2o)	ISO 20287	5,6	6,5	6,5
Relative Humidity (% in aire)	Sword measuring	45	50	50
Opacity (%)	ISO 2471	91	>99	>99
Formation (index on 120)	Kajaani measuring	100	100	100
Whiteness CIE	ISO 11475		74	

These values are to be considered only as indications and are subject to change according to trade tolerances in the quality specification. Issue date: November 2024

CREATIVE POWER

by antalis

November 2024

ROUGH Ultimate White

Property & Unit	**Standard**							
GSM	ISO 536	**100**	**120**	**150**	**200**	**240**	**300**	**400**
Thickness (µm)	ISO 534	145	174	217	290	336	420	560
Bulk (cm3 /g)	ISO 534	1.45	1.45	1.45	1.45	1.40	1.40	1.40
Roughness (ml/min)	ISO 8791-2	550	550	550	550	550	550	550
Absolute Humidity (%H2o)	ISO 20287	5.0	5.5	5.5	6.0	6.0	6.5	6.5
Relative Humidity (% in aire)	Sword measuring	38	44	44	48	48	50	50
Opacity (%)	ISO 2471	96	98	>98	>99	>99	>99	>99
Formation (index on 120)	Kajaani measuring	95	95	95	95	-	-	-
Whiteness CIE	ISO 11475				170			

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CREATIVE POWER

by antalis

November 2024

ROUGH Bright White

Property & Unit	**Standard**										
GSM	ISO 536	**90**	**100**	**120**	**130**	**150**	**170**	**200**	**240**	**300**	**350**
Thickness (µm)	ISO 534	130	145	174	189	217	248	290	348	435	490
Bulk (cm3 /g)	ISO 534	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.40
Roughness (ml/min)	ISO 8791-2	550	550	550	550	550	550	550	550	550	550
Absolute Humidity (%H2o)	ISO 20287	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	6.5	6.5
Relative Humidity (% in aire)	Sword measuring	42	42	42	42	42	42	42	42	50	50
Opacity (%)	ISO 2471	91	92	92,5	93	95	97	>99	>99	>99	>99
Formation (index on 120)	Kajaani measuring	100	100	100	100	95	95	90	90	95	-
Whiteness CIE	ISO 11475	151									

These values are to be considered only as indications and are subject to change according to trade tolerances in the quality specification. Issue date: November 2024

CREATIVE POWER

by antalis

November 2024

ROUGH Soft White

Property & Unit	**Standard**				
GSM	ISO 536	**90**	**120**	**200**	**300**
Thickness (µm)	ISO 534	130	174	290	420
Bulk (cm3 /g)	ISO 534	1,45	1,45	1,45	1,40
Roughness (ml/min)	ISO 8791-2	550	550	550	550
Absolute Humidity (%H2o)	ISO 20287	5,0	5,5	6,0	6,5
Relative Humidity (% in aire)	Sword measuring	38	44	48	50
Opacity (%)	ISO 2471	91	95	>99	>99
Whiteness CIE	ISO 11475	74			

These values are to be considered only as indications and are subject to change according to trade tolerances in the quality specification. Issue date: November 2024

CREATIVE POWER

by antalis

November 2024

RECYCLED High White

Property & Unit	Standard							
GSM	ISO 536	**90**	**120**	**200**	**250**	**300**	**350**	**400**
Thickness (µm)	ISO 534	114	150	244	305	357	417	476
Bulk (cm3 /g)	ISO 534	1.27	1.25	1.22	1.22	1.19	1.19	1.19
Roughness (ml/min)	ISO 8791-2				250			
Absolute Humidity (%H2o)	ISO 20287	5	5.5	6	6	6.5	6.5	6.5
Relative Humidity (% in aire)	Sword measuring	38	44	48	48	50	50	50
Opacity (%)	ISO 2471	95	98	>99	>99	>99	>99	>99
Whiteness CIE	ISO 11475				135			

These values are to be considered only as indications and are subject to change according to trade tolerances in the quality specification. Issue date: November 2024

CREATIVE POWER

by antalis

November 2024

Permanence of [redacted] PAPERS

The problems encountered by the archivists and librarians in the last century with the papers produced from wood pulp with acid sizing after 1850 led ISO organization to establish a international standard about paper permanence.

The ISO 9706 standard defines the papers which, by the present state of knowledge, have a high degree of permanence, and are likely to undergo little or no change in properties that influence readability and handling when stored in a protected environment for long periods of time.

The last fifteen centuries show us than the documents produced with pure cellulose fibres and protected against acidification (neutral or alkaline sizing) can be kept for very long periods of time.

The ISO 9706 standard contains the following criteria's :

Characteristic		Objective
KAPPA Index	:	No mechanical pulp for chemical stability
Tear resistance	:	Handling resistance
PH of cold water extract	:	non acid sizing of paper
Alkaline reserve	:	Protection against acid attack

This standard should then allow very stable paper properties during several centuries.

	Standard requirement	[redacted] value
1	PH of cold water extract between 7.5 and 10	8.5
2	Kappa index below 5, no mechanical pulp	Pure Chemical bleached pulp
3	Tear resistance above 350 mN	around 700mN
4	Alkaline reserve above 20 g CaCO3 / kg of paper	around 180g de CaCO3 / kg

All [redacted] papers, White and Colours, fully satisfy the permanence requirements of the ISO 9706 and can then guarantee a very good preservation of their properties during time, when stored in the appropriate environment.

November 2024

Papier graphique
Graphic paper

Certificat

Certificate

[redacted]

Maintien du 29/07/2024
Maintenance from 29/07/2024

AFNOR Certification certifie que les produits cités dans les annexes suivantes
AFNOR Certification certifies that the products listed on the following appendices

De l'entreprise :
Of the company:
[redacted]

Située à :
Located at:
[redacted]

Numéro d'enregistrement :
Registration number:
[redacted]

sont conformes aux exigences de la décision de la commission
Décision (UE) 2019/70 du 11 janvier 2019

meet the requirements of the decision of the commission Décision (UE) 2019/70 du 11 janvier 2019

Ecolabel Européen - Papier graphique
European Ecolabel - Graphic paper

Les caractéristiques certifiées sont :	*The certified characteristics are:*
Faibles émissions dans l'air et dans l'eau au cours de la production,	***Low emissons to air and water during production,***
Faible consommation d'énergie au cours de la production,	***Low energy use during production,***
Utilisation de fibres issues de sources durables et/ou de fibres recyclées.	***Use of sustainably sourced fibres or recycled fibers.***

11 rue Francis de Pressensé - 93571 La Plaine Saint-Denis Cedex - France - T. +33 (0)1 41 62 80 00 - F. +33 (0)1 49 17 90 00
SAS au capital de 18 187 000 € - 479 076 002 RCS Bobigny - www.afnor.org

November 2024

Liste détaillée des licences attribuées par AFNOR Certification
Detailed list of licenses granted by AFNOR Certification
pour l'Ecolabel Européen "Papier graphique"
for the EU Ecolabel "Graphic paper "

Du site de fabrication :
To the production site

[redacted]

Pour la marque commerciale :
For the trademark

OLIN DESIGN

Numéro de licence :
License number

[redacted]

Référence commerciale du produit :
Product Name

OLIN DESIGN RECYCLED

Ce certificat est valide jusqu'au
This certificate is valid until

31/12/2024

Ce document est signé électroniquement. Il constitue un original électronique à valeur probatoire.
This document is electronically signed. It stands for an electronic original with probationary value.

[redacted]

Julien NIZRI
Directeur Général d'AFNOR Certification
Managing Director of AFNOR Certification

[redacted]

Annule et remplace tout certificat antérieur. Seul un produit estampillé du logotype et n° d'enregistrement ou livré avec un document y faisant référence peut se prévaloir du présent certificat.
This certificate supersedes all earlier versions, and covers only products with the logotype and registration number or delivered with a document referring to them.
CERTI F 1393.5 06/2023

11 rue Francis de Pressensé - 93571 La Plaine Saint-Denis Cedex - France - T. +33 (0)1 41 62 80 00 - F. +33 (0)1 49 17 90 00
SAS au capital de 18 187 000 € - 479 076 002 RCS Bobigny - www.afnor.org

afnor CERTIFICATION

November 2024

RAL gemeinnützige GmbH
Fränkische Straße 7
53229 Bonn - Germany

EXTENSION CONTRACT

[redacted]

on the award of the environmental label

RAL gGmbH (RAL), as the label-awarding agency, and the company

[redacted]

as the applicant (licence holder), conclude the following Contract on the Use of the Environmental Label:

---

1. Subject to the following conditions, the applicant shall be entitled to use the environmental label for the labelling of the product (products, product groups and services)
   Graphic paper and cardboard made from 100% waste paper (recycled paper and cardboard) (Grafische Papiere und Kartons aus 100% Altpapier (Recyclingpapier und -karton)) for

   OLIN DESIGN RECYCLED Paper for printing, 100% recycled non coated paper in rolls and sheets

   This does not include the right to use the environmental label as part of a brand. The environmental label may only be used in compliance with the requirements in the Logo Guidelines of the environmental label. In particular, the environmental label may only be used in the depicted shape and colour unless otherwise agreed. The entire inner surrounding text must always be identical with respect to the font size, form, thickness and colour and it must be easy to read. The current version of the Logo Guidelines is available on the website of the environmental label (www.blauer-engel.de).
2. The environmental label according to Paragraph 1 may only be used for the above-named product(s).
3. If the environmental label is used for advertising purposes or other measures carried out by the applicant, the applicant shall ensure that it is exclusively used in connection with the abovenamed product(s) for which the use of the environmental label has been granted and settled under this contract. The applicant shall be solely responsible for the way in which the label is used, especially in advertising. This also applies in the event that the applicant utilises distribution partners.
4. During the entire period of use of the label, the product(s) to be labelled must comply with all requirements and conditions for the use of the label as specified in the "Basic Award Criteria for Award of the Environmental Label DE-UZ **14a**" as amended. This also applies to the reproduction of the environmental label and the short link that is valid for the Basic Award Criteria. The applicant shall indemnify RAL against all claims made by third parties, especially on the grounds of third party objections to the applicant's use of the label or the accompanying advertising.

5. If the "Basic Award Criteria for Award of the Environmental Label" include inspections by third parties, the applicant shall bear the resulting costs for these inspections.
6. RAL – or a third party authorized by it – is entitled to verify compliance with the Basic Award Criteria. For this purpose, the applicant shall – after prior notification – provide access to the premises where the product(s) in question is manufactured or stored or where the service is provided and shall grant the right to take product samples and inspect the relevant documentation. The time between notification and the provision of access should not be less than 24 hours.
7. The applicant shall immediately provide RAL with the required information (such as e.g. the GTIN, EAN, UPC, etc.) as soon as a GTIN, EAN, UPOC or comparable item number has been issued or has been changed for the product to be labelled with the environmental label. The applicant shall use the "product information section" on the online portal for the environmental label for this purpose.
8. The applicant shall immediately inform RAL in the event of any changes to the product data or specifications – including e.g. changes to the product designation or the composition of the product – for the product to be labelled with the environmental label. The applicant shall use the "Web Portal of RAL Environment" and the "product information section" on the online portal for the environmental label for this purpose.
9. The applicant is solely responsible for the correctness, completeness and actuality of the information and data provided.
10. The applicant agrees that all of the data provided by him/her for the identification and designation of the product will be passed on to third parties, especially retailers and Internet platforms, so that they can advertise and market the product(s) with reference to the environmental label. The applicant has no legal right to make claims against RAL for passing on this data to third parties.
11. RAL does not accept any liability for, in particular, the correctness, completeness and actuality of the data passed on to third parties or for objections to the use of the label or any accompanying advertising by third parties. This does not apply to damages arising from injury to life, limb or health due to gross negligence or deliberate infringement of obli-gations by RAL or a legal representative or vicarious agent of RAL, nor does it apply to other damages due to gross negligence or deliberate infringement of obligations by RAL or a legal representative or vicarious agent of RAL.

November 2024

12. If the applicant or third parties discover that the applicant is not complying with the conditions as stipulated in Paragraphs 2-5, the applicant undertakes to inform RAL and cease using the environmental label and to ensure that it is no longer used by its distribution partners until the conditions are complied with again. If the applicant is incapable of immediately restoring the required conditions for the use of the environmental label or if the applicant has committed a serious infringement of the contract, RAL is entitled, if necessary, to withdraw the environmental label and prohibit any further use of the environmental label in the future. Any claims for damages against RAL due to the withdrawal of the environmental label are excluded.
13. The Contract on the Use of the Environmental Label may be terminated for good reason.
    Examples of good reasons are:
    - unpaid fees
    - a substantiated risk of injury and death
    In such cases, the continued use of the environmental label by the applicant is prohibited. Any claims for damages against RAL are also excluded within the scope described in Section 11.
14. The applicant undertakes to pay RAL a fee for the period of use of the environmental label in accordance with the "Entgeltordnung für das Umweltzeichen" (Schedule of Fees for the Environmental Label), as amended.
15. According to the "Basic Award Criteria for Award of the Environmental Label DE-UZ **14a**" this contract will run until December 31.**2025**. The contract will be extended by an additional year in each case, unless terminated in writing by 31 March **2025** or 31 March of the respective year of extension. After the expiry of the contract, the environmental label may neither be used for labelling nor for advertising purposes. This also applies to any product images used in advertising by the applicant themselves or by distribution partners. This provision does not affect products that are still in the market.
16. The applicant is not authorised to transfer the rights from this contract to third parties or to issue subcontracts. If images or other advertising materials are passed on to distribution partners, the applicant shall obligate these distribution partners to comply with the conditions on the use of the environmental label stated in this contract.
17. Products labelled with the environmental label may only reach consumers under the name of the company
    Antalis International SAS
    8, Rue de Seine
    F-92100 Boulogne-Billancourt.