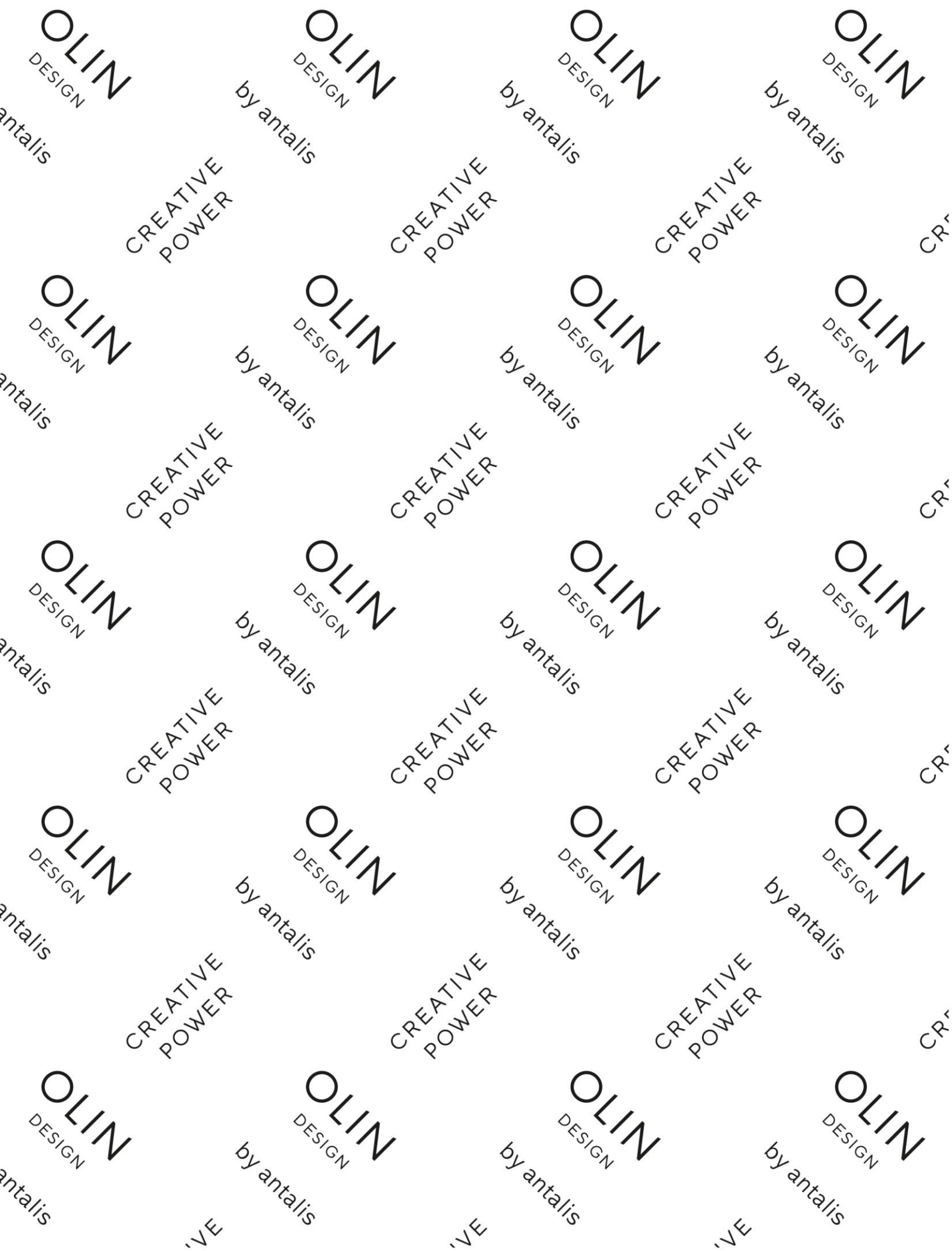




November 2024

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.



CREATIVE
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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





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										

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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										

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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					

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November 2024

REGULAR DIGITAL Ultimate White

Dry Toner ®



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				

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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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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					

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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		

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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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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									

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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			

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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						

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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.

<u>Standard requirement</u>	<u>[REDACTED] value</u>
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.

