



Curious Matter is a one-of-a-kind paper, with a unique feel somewhere between silk and sand. Its colour palette ranges from neutral tones, such as Goya White and Andina Grey, to intense shades including Adrion Blue, Desiree Red and Black Truffle.

Curious Matter promises to add a sensory experience to all creative projects.

## Printing Guidelines

### Offset litho

- Design and Pre-press: We recommend screen ruling of 130-150 lpi. Under-colour removal can be considered depending on the quality of the visual. Aim for the total ink film weight of 260%.
- Printing ink: We recommend the use of a conventional positive drying ink with or without infrared drying assistance. Oxidizing inks or UV inks are suitable.
- Paper handling: We recommend 35 microns anti set off spray for board and 20 microns for paper in order to avoid marking and set-off when printing.

### Sealer and coatings

They can be used to reduce marking for further operation, but coatings are not recommended as they can change the feel of the paper. Make sure the inks are suitable. Best results are obtained when the inks are dry before sealing.

### Varnishing

Ensure appropriate inks are used before varnishing and that the inks are completely dry before applying the varnish.

### Hot foil stamping

Curious Matter can be stamped, we recommend a trial run if specialised sheets are required

### Film lamination

The paper can be laminated. However, there will be some “silvering” to reduce silvering, increase lamination pressure apply excess adhesive if wet glue lamination is used.

### Die and laser cutting

Matter papers and boards can be die cut; during laser cutting, scratches are visible around the cut area.

### Binding and adhesives

It is possible to glue the papers to themselves and to other materials. Standard binding techniques can also be used.

### Office Printing

The compatibility with office printers should be tested, the range is not suitable for inkjet printers.

### Digital technologies

The range is compatible with Dry Toner and HP Indigo printers.



Property & Unit	Standard			
GSM	EN ISO 536	135	270	380
Caliper (µm)	ISO 534	210	365	480
Goya white opacity (%)	ISO 2471	92	93	-
Bendtsen Roughness (ml/min)	ISO 2492	1600		
Stiffness [M / C direction] (mN)	ISO 2493	11 / 6	90 / 50	220 / 100
Moisture content (%)	ISO 287	6.5		
Relative humidity (%)	TAPPI T502	40 - 60		

These values are to be considered only as indications and are subject to change according to trade tolerances in the quality specification.  
Issue date: March 2023



CREATIVE  
POWER

by antalis

Shimmering, luxurious and timeless describes the Curious Metallics range. With 18 shades, the range is home to classic and exciting colours for all kinds of applications.

Inspiring your creativity and supporting your print projects, Curious Metallics is perfect for brochures, reports, greeting cards, invitations, catalogue covers and much more!

The range also includes digital formats for shades Ice Silver and Ice Gold.

## Printing Guidelines

### Print Techniques

Suitable for widely used print techniques, including offset lithography, letterpress, embossing, debossing, silkscreening, die-stamping and foil-blocking. A pre-test is recommended for thermography.

### Preparation

Avoid extreme humidity or temperature condition and keep the paper as long as possible in the mill wrapper before use.

### Inks

We recommend using fully oxidising inks. Please consult your ink manufacturer for specific colours or formulations. Curious Metallics do not contain ground metals and are not foilpapers

### Screen Ruling

we recommend screen rulings of 130-163 lpi to obtain the best result

### Laminating

The paper accepts laminates easily, although some 'silvering' may occur. Increase laminating pressure and apply excess adhesive to help reduce silvering. Laminates will reduce or negate the metallic effect

### Spraying

We recommend using spray powder with a particle size of 35 microns or above when printing board weights.

### Digital Printing

Curious Metallics is suitable for Dry Toner and HP Indigo printing



Property & Unit	Standard	Side or Direction			
GSM (g/m <sup>2</sup> )	ISO 536	-	120	250	300
Thickness (μm)	ISO 534	-	157	335	400
Roughness Bendtsen (%)	ISO 8791-2	Front	550	550	550
Roughness Bendtsen (%)	ISO 8791-2	Back	650	650	650
L&W Stiffness[15° / 50 mm] (mN)	ISO 2493	MD	300	150	240
L&W Stiffness[15° / 50 mm] (mN)	ISO 2493	CD	150	75	120
Absolute Humidity (%)	ISO 287	-	6.0	6.0	6.0
Bulk (cm <sup>3</sup> / g)	ISO 534	-	1.31	1.34	1.33

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Property & Unit	Standard	Side or Direction			
GSM (g/m <sup>2</sup> )	ISO 536	-	120	250	300
Thickness (μm)	ISO 534	-	138	292	365
Roughness Bendtsen (%)	ISO 8791-2	Front	250	250	250
Roughness Bendtsen (%)	ISO 8791-2	Back	400	350	350
L&W Stiffness[15° / 50 mm] (mN)	ISO 2493	MD	220	110	200
L&W Stiffness[15° / 50 mm] (mN)	ISO 2493	CD	110	55	100
Absolute Humidity (%)	ISO 287	-	6.0	6.0	6.0
Bulk (cm <sup>3</sup> /g)	ISO 534	-	1.15	1.17	1.24

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Curious Skin offers a luxurious appearance and a silky smooth feel. With a uniform surface, this premium paper is well suited for invitations and luxury packaging.

Scratch and fingerprint resistant, Curious Skin helps produce more durable creations and optimum impact.

## Printing Guidelines

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### Offset litho

- Design and Pre-press: We recommend screen ruling of 175 lpi. Removal of the undercolour may be considered for jobs with large areas of dark ink.
- Printing ink: We recommend the use of fully oxidizing inks, UV inks are suitable.
- Paper handling: We recommend 35 microns anti-peel spray for cardboard and 20 microns for paper to prevent marking and peeling during printing. Always protect the paper from humidity and temperature changes by using stock covers or stretch wrap.

### Sealer and coatings

They can be used to help reduce marking for later operation, to ensure that inks are suitable and to achieve best results when inks are dry before sealing.

### Coating

Excellent results can be achieved by spot UV coating through the screening process. Care should be taken to ensure that appropriate inks are used prior to coating and that the inks are completely dry before the coating is applied.

### Hot foil stamping

Curious Skin can be foil stamped, ensure the use of compatible film and do not use transparent film.

### Film lamination

The paper can be laminated. However, the visual appearance and feel will be lost.

### Die and laser cutting

Skin papers and boards can be die cut, while laser cutting is easy. Some scratching will be apparent around the cut area.

### Binding and adhesives

It is possible to glue the papers with appropriate adhesives, use PUR hot melt adhesive for perfect binding.

### Office Printing

The range is not recommended with office printers.



Property & Unit	Standard			
GSM	EN ISO 536	135	270	380
Caliper (µm)	ISO 534	135	300	415
Extrat white opacity (%)	ISO 2471	95.5	-	-
Bekk Smothness (Bekk sec)	ISO 5627	50	60	60
Stiffness [M / C direction] (mN)	ISO 2493	20 / 14	160 / 80	410 / 210
Moisture content (%)	ISO 287	5	5	5.5
Relative humidity (%)	TAPPI T502	45		

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**TRANSLUCENTS** Bright White

With an elegant look and feel, **Curious Translucent papers** will add a special touch to your printed projects. The soft appearance of the underlying print adds intrigue and heightens the sensorial experience.

FSC, ISO9001 and 50001 certified.

**Printing Guidelines****Applications**

Brochures, covers, dividers, inserts, pockets, invitations, cards, tags, annual reports, posters and packaging.

**Printing & Conversion**

Printing: Suitable for Offset (use oxidizing inks), Offset UV, Thermo-relief printing. Suitable for inkjet and dry toner printing but check manufacturers guidelines and test specific application.

Finishing: Hot foil stamping, UV varnishing, Oil-based and dispersion varnishing, embossing, drilling, perforating, scoring, die-cutting, folding.

**Properties**

Transparent, uniform look through, resistant to ageing.



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Property & Unit	Standard		
GSM	EN ISO 536	100	210
Thickness (µm)	EN 20534	83	150
Bulk spec. (cm3 /g)	DIN 53105	0.8	0.8
Moisture (%)	EN 20287	7	7
Optical Whiteness (%)	DIN 53145-2	93.5	93.5
Smoothness Bekk (sec.)	DIN 53107	15	15
Transparency (%)	DIN 53147	60	42

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Finishing: Hot foil stamping, UV varnishing, Oil-based and dispersion varnishing, embossing, drilling, perforating, scoring, die-cutting, folding.

### Properties

Transparent, uniform look through and resistant to ageing. Translucent Clear versions are food contact approved and OBA free. Recyclable in standard paper waste.



OBA  
FREE

ISO  
9001

ISO  
50001

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Property & Unit	Standard							
GSM	EN ISO 536	80	90	100	110	150	210	320
Thickness (µm)	EN 20534	69	76	85	92	120	165	247
Bulk spec. (cm3 /g)	DIN 53105	0.85	0.85	0.85	0.85	0.8	0.79	0.77
Moisture (%)	EN 20287	7	7	7	7	7	7	7
Optical Whiteness (%)	DIN 53145-2	68.4	68.4	68.4	67.1	68.9	60.7	60.4
Smoothness Bekk (sec.)	DIN 53107	20	17	15	13	8	15	8
Transparency (%)	DIN 53147	76.7	74.9	73.3	72.3	67.5	58	45.8

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