

# Paper. People. Possibilities.

Sappi Packaging and Speciality Papers



July 2018 – English



**sappi**



Flexible  
Packaging

Label  
Papers

Functional  
Papers

Container-  
board

Paperboard

Silicone  
Base  
Papers

Dye  
Sublimation  
Papers

Inkjet  
Papers

## People like you. Paper like no other.

As a packaging material and solutions provider, we have one major goal: to deliver more than just materials, to deliver the most valuable brand experience. We are your value-creating partner, offering an extensive range of innovative products and services that increase the efficiency, effectiveness and profitability of fibre-based solutions.

We combine leading products and services to give you considerable advantages in your supply chain. No matter whether you are a brand owner, converter, printer, designer or communications agency, you will benefit from our close partnership. Sappi Packaging and Speciality Papers aims to support your top line and bottom line growth.

Our employees work in a dedicated, ingenious and solution-oriented manner. Through this approach, and in combination with our exceptional paper, new and undreamed possibilities arise. Therefore, the following equation describes Sappi Packaging and Speciality Paper in a nutshell.

### **Paper. People. Possibilities.**



**sappi**



## We are your value-creating partner.

**LEADING** We deliver, thanks to our employees, state-of-the-art technology, leading knowledge, and outstanding products and services. We are the inventors of high quality surface coating. Needless to say, we continue to innovate and create new and extra value for you with advanced paper solutions.

With our broad and innovative portfolio of premium products, we have the right solutions to meet our customers' needs. At the same time we offer a broad range of alternative sustainable solutions to reduce fossil fuel-based, non-renewable packaging in many of our product segments. We support our customers with our multi-disciplinary team of experts. Above all, we understand the whole value chain and think in terms of Total Cost of Ownership.





**VALUABLE** We understand the converter's needs and speak the same language as the brand owners. Therefore, our products are elegant, create extra value and deliver a fascinating presentation for brands. We are dedicated to speciality papers and boards. We put our heart and soul into our daily work – and have done so for more than 300 years. Our products are highly consistent in quality – with their near-to-identical and homogenous surface. They are literally sensual because they appeal to all senses in a special way.

**APPRECIATIVE** We work in partnerships based on trust and respect. For that reason, we place great value on being reliable – and we are. Thanks to our unmatched logistics network, financial stability, global availability and consistent premium quality. We appreciate our partners. So we work together with them – in a friendly way. We listen to our customers and understand what they need. Then we develop and deliver dedicated solutions to fulfil their desires.



## Pioneers in paper.

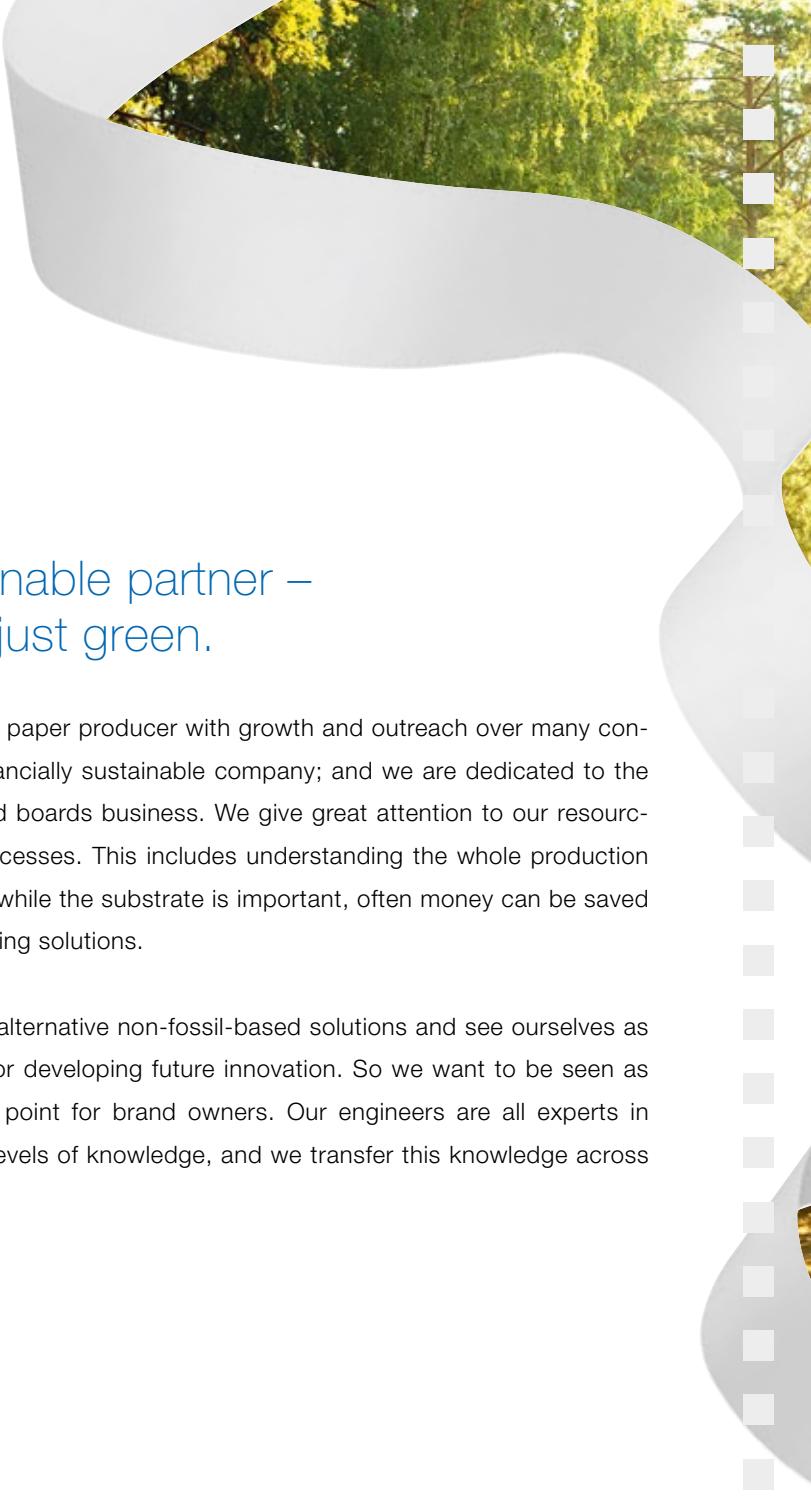
Our strategy is based on three pillars which blend together to drive our major goal – to deliver more than just materials, to deliver the most valuable brand experience.

**INVEST** We are one of the few in the market who are investing heavily in the future development of our capabilities. At the same time, we are the only ones who are willing to grow together with our partners. And what's more, we are able to do so.

**INGENIOUS** We are an innovative company that provides sustainable fibre-based solutions with premium quality and services. Thus, we are responsible for new developments in the market and are the strong partner for tomorrow's challenges.

**GLOBAL** We are your global partner; and at the same time, we are your local partner in every region worldwide. Thanks to our logistics network, financial stability and global availability combined with our excellent end-user network, we can serve our customers with products, technical support and innovation, no matter where they are located.





## Your sustainable partner – more than just green.

As a global pulp and paper producer with growth and outreach over many continents, we are a financially sustainable company; and we are dedicated to the speciality papers and boards business. We give great attention to our resources and recycling processes. This includes understanding the whole production chain and beyond – while the substrate is important, often money can be saved with creative converting solutions.

We have developed alternative non-fossil-based solutions and see ourselves as a strategic partner for developing future innovation. So we want to be seen as the primary contact point for brand owners. Our engineers are all experts in their field with high levels of knowledge, and we transfer this knowledge across generations.









## Our daily business: Premium Quality and Innovation.

The goal of our prestigious research and development department is to introduce at least two fibre-based innovations per year, which is significant in the paper business. With substantial experience and research into papermaking and coatings, our engineers and application specialists are global experts in their field. And while we're on the subject of globality: our premium products are available and used all over the world.

We work together with our customers and many strategic partners worldwide to utilize the best technologies and knowledge to develop solutions delivering optimum speciality papers and coatings to an ever-changing and growing market.

Our produced coated and uncoated speciality papers and the solid bleached board are highly regarded due to their unique surface. This surface guarantees excellent and highly efficient processing, finishing and printing.



## Together for growth

We are working hand in hand with our customers for a shared success. We need to be a strong and reliable partner to provide innovative products and best services in our markets worldwide. To develop this market position, Sappi combines organic growth and acquisition. Within the next three years (to 2019), Sappi will invest more than 300 million USD in its European and North American mills with the aim of significantly increasing its packaging and speciality paper capacity and capability.

We have already increased production capacity through technical upgrades in the Sappi mills in Ehingen and Maastricht. We will extend the speciality paper production to further European mills. In addition, we have made important acquisitions with Rockwell Solutions and Cham Paper Group to develop our business.

# European production sites



## Sappi Alfeld (Germany)

Name of the mill	Alfeld Mill				
	PM 1	PM 2	PM 3	PM 4	PM 5
Annual capacity	50,000 tons	120,000 tons	45,000 tons	45,000 tons	40,000 tons
Width of paper machine	3.3 m	4.6 m	4.8 m	3.3 m	4.8 m
Grammage range	100 - 400 g/m <sup>2</sup>	40 - 180 g/m <sup>2</sup>	36 - 100 g/m <sup>2</sup>	62 - 180 g/m <sup>2</sup>	18 - 60 g/m <sup>2</sup>
Production of speciality paper	Flexible Packaging, Label Papers, Functional Papers, Containerboard, Paperboard, Silicone Base Papers				



## Sappi Ehingen (Germany)

Name of the mill	Ehingen Mill	
	PM	
Annual capacity	275,000 tons	
Width of paper machine	5.6 m	
Grammage range	70 - 250 g/m <sup>2</sup>	
Production of speciality paper	Containerboard	

## Sappi Maastricht (Netherlands)

Name of the mill	Maastricht Mill	
	PM 6	
Annual capacity	280,000 tons	
Width wire of paper machine	4.25 m	
Grammage range	200 - 400 g/m <sup>2</sup>	
Production of speciality paper	Paperboard	

# European production sites

## Sappi Carmignano (Italy)



<b>Name of the mill</b>	Carmignano Mill	
	PM 4	PM 6
<b>Annual capacity (PM 4 and PM 6)</b>	100,000 tons	
<b>Width of paper machine</b>	3.40 m	3.30 m
<b>Grammage range</b>	40 - 125 g/m <sup>2</sup>	40 - 70 g/m <sup>2</sup>
<b>Production of speciality paper</b>	Flexible Packaging, Label Papers, Dye Sublimation Papers, Inkjet Papers	



## Sappi Stockstadt (Germany)

<b>Name of the mill</b>	Stockstadt Mill
	PM 2
<b>Annual capacity</b>	240,000 tons
<b>Width of paper machine</b>	5.60 m
<b>Grammage range</b>	70 - 225 g/m <sup>2</sup>
<b>Production of speciality paper</b>	Label Papers, Containerboard, Flexible Packaging

## Sappi Condino (Italy)

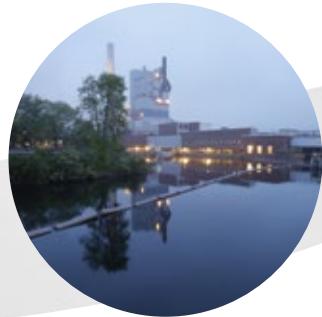
<b>Name of the mill</b>	Condino Mill
	PM 5
<b>Annual capacity</b>	60,000 tons
<b>Width of paper machine</b>	3.60 m
<b>Grammage range</b>	40 - 200 g/m <sup>2</sup>
<b>Production of speciality paper</b>	Silicone Base Papers, Flexible Packaging, Dye Sublimation Papers, Inkjet Papers

# North American production sites



## Sappi Somerset (USA)

<b>Name of the mill</b>	Somerset Mill	
	PM 1	PM 2
<b>Annual capacity</b>	340,000 metric tons	210,000 metric tons
<b>Width of paper machine</b>	7.24 m	7.24 m
<b>Grammage range</b>	118 - 451 g/m <sup>2</sup>	59 - 104 g/m <sup>2</sup>
<b>Production of speciality paper</b>	Paperboard, Label Papers, Functional Papers	



## Sappi Cloquet (USA)

<b>Name of the mill</b>	Cloquet Mill
	PM 12
<b>Annual capacity</b>	170,000 metric tons
<b>Width wire of paper machine</b>	4.93 m
<b>Grammage range</b>	89 - 190 g/m <sup>2</sup>
<b>Production of speciality paper</b>	Label Papers

## Sappi Westbrook (USA)

<b>Name of the mill</b>	Westbrook Mill
	PM 9
<b>Annual capacity</b>	36,000 metric tons
<b>Width wire of paper machine</b>	3.40 m
<b>Grammage range</b>	122 - 200 g/m <sup>2</sup>
<b>Production of speciality paper</b>	Functional Papers

# South African production sites



## Sappi Ngodwana (South Africa)

<b>Name of the mill</b>	Ngodwana Mill
<b>Annual capacity paper machine 1</b>	240,000 tons
<b>Width wire of paper machine</b>	7.5 m
<b>Grammage range</b>	140 - 400 g/m <sup>2</sup>
<b>Production of speciality paper</b>	Containerboard

## Sappi Tugela (South Africa)

<b>Name of the mill</b>	Tugela Mill
<b>Annual capacity</b>	195,000 tons
<b>Width wire of paper machine</b>	5.3 m
<b>Grammage range</b>	125 - 180 g/m <sup>2</sup>
<b>Production of speciality paper</b>	Containerboard

## Sustainability at Sappi every day and every shift

As a natural, renewable resource company, Sappi is in an excellent position to help drive the renewal of the forestry industry towards a low-carbon future. The company is using natural resources like woodfibre and water to create products that support society's needs. To ensure the ongoing viability of these resources, Sappi strives to achieve the highest standards of environmental performance. Sappi holds itself accountable to global sustainability best practice standards by transparently measuring, monitoring and communicating our economic, social and environmental performance.

Sappi is an environmental management pioneer and certified by different standards. Sappi Europe was the first company to achieve multi-site cross-border Chain of Custody certification.



The mark of  
responsible forestry





# Flexible Packaging

Flexible paper solutions – literally.



# Flexible Packaging Papers

## For various food and non-food packaging applications

### Coated Papers

- Algro Fin
- Algro Finess
- Algro Finess H
- Algro Finess HS
- Algro Finess Pure
- Algro Kraft Y
- Algro Nature
- Algro Primess
- Algro Teapack
- Algro Vitess
- Carcoat
- Carlid
- Carlux OB
- Hi-Fi Kraft Lux
- Twisting MP

### Uncoated Papers

- Leine Kraft
- Leine Mühle
- Leine Nature
- Leine Silk
- Leine Teapack
- MF Bright
- MF Bright OF
- Twisting

Further products and related information you will find at [www.sappi.com](http://www.sappi.com)



# Flexible Packaging Coated Papers



Brand	Characteristics	Print Process	Conversion Process	g/m <sup>2</sup>	Application	Certified for direct food contact	Sheet/Reel
Algro Fin	coated, matt, MG base	offset, flexo, gravure	lamination to film and foil, PE/PVDC coating	40 - 135	flour bag, carrier and shopping bag, seed bag, flat bag	✓	卷
Algro Finess	coated, gloss, MG base	flexo, gravure	embossing, lamination to film, foil and PE/PVDC coating	40 - 140	confectionery wrapper, food/snack wrapper and sachet, soup pouch, flat bag, pet food bag, sugar sachet, quality wrapper, pharmaceutical sachet, carrier and shopping bag, coffee wrapper	✓	卷
Algro Finess H	coated, gloss, MG base	flexo, gravure	lamination	43, 45	lid for yoghurt pot	✓	卷
Algro Finess HS	coated, gloss, MG base	flexo, gravure	lamination, varnishing, sealing, PE-/PVDC coating	90, 100	Flat bags, wrappers, banderole, block bottom bags	✓	卷
Algro Finess Pure	coated, gloss, MG base	flexo, gravure	embossing, lamination to film, foil and PE/PVDC coating, metallizing	40-70	confectionery wrapper, food/snack wrapper and sachet, soup pouch, flat bag, pet food bag, sugar sachet, quality wrapper, pharmaceutical sachet, carrier and shopping bag, coffee wrapper	✓	卷
Algro Kraft Y	coated, gloss, MG base	flexo, gravure	varnishing, hot melt coating	90, 95, 97, 110	banderole for yoghurt pot	✓	卷
Algro Nature	coated, gloss, MG base, home compostable	flexo, gravure	laminating, varnishing, PE extrusion	40 - 80	confectionery wrapper, food/snack wrapper and sachet, flat bag	✓	卷
Algro Primess	high white, high gloss, MG base	flexo, gravure	laminating, metallizing, varnishing, impregnation, PE/PVDC coating	50 - 70	confectionery wrapper, food/snack wrapper and sachet, flat bag, pet food bag, premium wrapper, carrier and shopping bag, soup pouch, pharmaceutical sachet	✓	卷
Algro Teapack	coated, gloss, MG base	flexo, gravure	crimping	70, 80	tea envelope	✓	卷
Algro Vitess	coated, gloss, MG base	flexo, gravure	embossing, lamination to film, foil and PE/PVDC coating	50 - 120	confectionery wrapper, food/snack wrapper and sachet, soup pouch, flat bag, pet food bag, sugar sachet, quality wrapper, pharmaceutical sachet, carrier and shopping bag, coffee wrapper	✓	卷
Carcoat OB	coated, high gloss, MF base	flexo, gravure	embossing, lamination to film, foil and PE/PVDC coating	40 - 95	confectionery wrapper, food/snack wrapper and sachet, soup pouch, flat bag, pet food bag, sugar sachet, quality wrapper, pharmaceutical sachet, carrier and shopping bag, coffee wrapper	✓	卷
Carlid	coated, high gloss, MG base	flexo, gravure	lamination	40 - 45	lid for yoghurt pot	✓	卷
Carlux OB	coated, high gloss, MG base	flexo, gravure	embossing, lamination to film, foil and PE/PVDC coating	40 - 70	confectionery wrapper, food/snack wrapper and sachet, soup pouch, flat bag, pet food bag, sugar sachet, quality wrapper, pharmaceutical sachet, carrier and shopping bag, coffee wrapper	✓	卷
Hi-Fi Kraft Lux	coated, high gloss, MG base	offset, flexo, gravure	laminating, metallizing, varnishing, impregnation, PE/PVDC coating	45 - 70	confectionery wrapper, food/snack wrapper and sachet, flat bag, pet food bag, premium wrapper, carrier and shopping bag, soup pouch, pharmaceutical sachet	✓	卷
Twisting MP	coated Kraft paper	flexo, gravure	waxing	42 - 45	wraps for sweets and chewing gum	✓	卷

Algro grades are:

- These paper grades are recyclable and available as FSC® and PEFC™ certified on request.
- The producing mill is ISO 9001, ISO 14001, ISO 50001, OHSAS 18001, FSC® and PEFC™ Chain of Custody certified and EMAS (Eco Management and Audit Scheme) registered.
- The producing mill is DIN EN 15593, suitable for direct contact with foodstuff. The Alfeld (Algro and Leine grades) mill is ISO 22000 certified, Management of hygiene in the production of packaging for foodstuffs.
- Samples can be ordered via email: [speciality.paper@sappi.com](mailto:speciality.paper@sappi.com)

Carcoat OB, Carlid, Carlux OB,  
Hi-Fi Kraft Lux and Twisting MP grades are:

- These paper grades are recyclable and available as FSC® certified on request.
- The producing mill is ISO 9001, ISO 14001, ISO 50001, OHSAS 18001, FSC® certified.
- The producing mill is DIN EN 15593, suitable for direct contact with foodstuff.
- Samples can be ordered via email: [speciality.paper@sappi.com](mailto:speciality.paper@sappi.com)

A one side coated matt paper with high bulk and excellent runnability on converting lines.

## Applications

Designed for a wide range of flexible packaging applications with a matt finish.

## Features

- surface with matt finish
- suitable for gravure and flexo printing
- good mechanical strength
- suitable for extrusion coating, lamination to film and foil
- suitable for direct contact with foodstuff

## Your benefits

- good image reproduction
- established as the market standard for universal packaging applications
- good yield versus grammage
- good haptic properties due to matt finish and high bulk
- high-speed performance on converting packing lines

## Grammages

g/m <sup>2</sup>	40	45	50	55	60	70	80	90	100	115	120	130	135
Sheets 							•	•	•	•	•	•	•
Reels 	•	•	•	•	•	•	•	•	•	•	•	•	•

Non-standard grammages available on request.



A universal one side coated glossy paper.

## Applications

Designed for a wide range of high-quality flexible packaging applications.

## Features

- outstanding gloss
- suitable for gravure and flexo printing
- no added OBA
- suitable for metallizing, embossing, lamination to film and foil and PE/PVDC coating
- excellent printability
- suitable for direct contact with foodstuff

## Your benefits

- high-quality colour and tonal reproduction
- established as the market standard for universal packaging applications
- high operation speed
- good optical appearance

## Grammages

g/m <sup>2</sup>	40	43	45	50	60	70	80	90	100	120	140
Reels 	•	•	•	•	•	•	•	•	•	•	•

Non-standard grammages available on request.



A one side coated MG base paper for yoghurt lid application.

## Applications

PET/paper composite (Mixpap) for yoghurt lids.

## Features

- glossy surface
- excellent lamination and heat sealing properties
- different types of adhesives (solvent-free, solvent-based and water based) feasible
- suitable for gravure printing, even if ESA could not be used
- suitable for direct contact with foodstuff

## Your benefits

- very good printing results and visual impact
- excellent conversion properties
- superior pack line properties

## Grammages

g/m <sup>2</sup>	43	45
Reels	•	•

Non-standard grammages available on request.



A universal one side coated glossy paper.

## Applications

Designed for a wide range of high-quality flexible packaging applications, such as flat bags, block bottom bags, wrappers and banderols.

## Features

- outstanding gloss
- suitable for gravure and flexo printing
- no added OBA
- suitable for vanishing, sealing and lamination to film and foil and PE/PVDC coating
- suitable for direct contact with foodstuff

## Your benefits

- high-quality colour and tonal reproduction
- established as the market standard for universal packaging applications
- high operation speed
- good optical appearance

## Grammages

	g/m <sup>2</sup>	90	100
Sheets		•	•
Reels		•	•

Non-standard grammages available on request.

A universal one side coated glossy paper.

## Applications

Designed for a wide range of high-quality flexible packaging applications.

## Features

- outstanding gloss
- suitable for gravure and flexo printing
- no added OBA
- suitable for embossing, lamination to film, foil and PE/PVDC coating and metallizing
- excellent printability
- suitable for direct contact with foodstuff

## Your benefits

- high-quality colour and tonal reproduction
- established as the market standard for universal packaging applications
- high operation speed
- good optical appearance

## Grammages

g/m <sup>2</sup>	40	50	60
Sheets 	•	•	•
Reels 	•	•	•

Non-standard grammages available on request.



A one side coated glossy paper with high mechanical strength, high stiffness and good printing properties.

## Applications

Designed especially for yoghurt banderoles.

## Features

- glossy surface
- suitable for gravure and flexo printing
- suitable for direct contact with foodstuff

## Your benefits

- to increase the stability of the yoghurt pot
- traditional level of stiffness despite down gauging
- good gravure reproduction
- suitable for high speed packing lines

## Grammages

g/m <sup>2</sup>	90	95	97	110
Reels 	•	•	•	•

Non-standard grammages available on request.

Biodegradable, one side coated, glossy paper. When extrusion laminated with a cellulose based bio plastic with suitable barrier properties (mainly oxygen and water vapour barrier), this product offers you a home compostable alternative to a traditional paper/oil-based film laminate.

## Applications

Designed for environmentally friendly packaging solutions.

## Features

- one side coated Kraft paper
- can be laminated to a cellulose based bio plastic
- home compostable and biodegradable
- suitable for anaerobic digestion
- all fibers from sustainable and controlled sources
- suitable for gravure and flexo printing
- suitable for varnishing
- EN 13432 DIN CERTCO and “OK home compost” Vinçotte/OWS certified
- suitable for direct contact with foodstuff

## Your benefits

- all mineral oil-based binders replaced by plant-based coating ingredients
- reduced environmental impact, costs and carbon footprint
- new trend in the market

## Grammages

g/m <sup>2</sup>	40	50	60	70	80
Reels 	•	•	•	•	•

Non-standard grammages available on request.



A one side coated paper with intense whiteness, high gloss and outstanding smoothness.

## Applications

Designed for a diversity of applications at the high-quality end of the flexible packaging sector.

## Features

- high gloss
- suitable for gravure and flexo printing
- high whiteness
- high opacity
- high dimensional stability
- excellent printability
- suitable for lamination, metallizing, varnishing, impregnation, PE and PVDC coating
- suitable for direct contact with foodstuff

## Your benefits

- excellent colour reproduction generating vivid colours and high contrast
- creates an image of luxury
- high surface smoothness
- ideal for lamination, foil and film
- versatile product
- excellent shelf impact
- high operation speed

## Grammages

g/m <sup>2</sup>	50	60	70
Reels 	•	•	•

Non-standard grammages available on request.

A one side coated paper with good printability and crimping properties.

## Applications

Designed for tea envelopes.

## Features

- glossy surface
- excellent crimping properties
- good printability
- suitable for gravure and flexo printing
- suitable for direct contact with foodstuff

## Your benefits

- safe mechanical closing
- fully dedicated to tea sachet packaging
- use of cold seal not required
- enhanced crimping performance
- excellent performance on packaging line

## Grammages

g/m <sup>2</sup>	70	80
Reels	•	•

Non-standard grammages available on request.



A universal one side coated glossy paper with outstanding whiteness.

## Applications

Designed for a wide range of high-quality flexible packaging applications, demanding high brightness.

## Features

- high gloss
- outstanding brightness
- suitable for gravure and flexo printing
- suitable for metallizing, embossing, lamination to film and foil and PE/PVDC coating
- excellent printability
- suitable for direct contact with foodstuff

## Your benefits

- excellent shelf impact
- high operation speed
- excellent gravure and flexo printing results

## Grammages

g/m <sup>2</sup>	50	60	70	80	90	100	110	120
Reels 	•	•	•	•	•	•	•	•

Non-standard grammages available on request.

A universal one side coated glossy paper with good printing characteristics and runnability.

## Applications

Designed for a wide range of flexible packaging applications.

## Features

- high calendered
- suitable for flexo and gravure printing
- high gloss level and good smoothness
- also available without optical brightener (no added OBA)
- excellent flex-crack resistance
- neutral taste and odour
- suitable for direct contact with foodstuff

## Your benefits

- good optical appearance
- very good runnability
- high operation speed

## Grammages

g/m <sup>2</sup>	40	45	50	60	70	80	90	92	95
Reels 	•	•	•	•	•	•	•	•	•

Non-standard grammages available on request.



A one side coated paper for yoghurt lid applications.

## Applications

PET/paper composite (Mixpap) for yoghurt lids.

## Features

- high calendered
- suitable for flexo and gravure printing
- high gloss level and high opacity
- excellent brightness
- high thermo sealing resistance
- excellent flex-crack resistance
- suitable for direct contact with foodstuff

## Your benefits

- very good printing results and visual impact
- very good runnability on packing lines

## Grammages

g/m <sup>2</sup>	41	43	45
Reels 	•	•	•

Non-standard grammages available on request.

A universal one side coated glossy paper with good printing characteristics and runnability.

## Applications

Designed for a wide range of flexible packaging applications, such as sachets, pouches, bags and wrappings.

## Features

- high calendered
- suitable for flexo and gravure printing
- high gloss level and smoothness
- excellent flex-crack resistance
- good lay-flat properties for C1S grade
- neutral taste and odour
- suitable for direct contact with foodstuff
- also available without optical brightener (no added OBA)

## Your benefits

- excellent printability and good optical appearance
- very good runnability on packing lines

## Grammages

g/m <sup>2</sup>	40	43	45	50	55	60	65	70
Reels 	•	•	•	•	•	•	•	•

Non-standard grammages available on request.



A one side coated glossy paper with excellent printability and runnability.

## Applications

Designed for premium flexible packaging applications, such as pouches, bags and wrappings.

## Features

- high calendered
- suitable for offset, flexo and gravure printing
- extraordinary high gloss and smoothness
- excellent flex-crack resistance
- neutral taste and odour
- suitable for direct contact with foodstuff

## Your benefits

- excellent printability and good optical appearance
- very good runnability on packing lines

## Grammages

g/m <sup>2</sup>	45	50	60	65	70
Reels 	•	•	•	•	•

Non-standard grammages available on request.

A one side clay coated Kraft paper with excellent twisting properties and good printing results.

## Applications

Designed for special confectionary applications, such as wrappings for sweets and chewing-gum.

## Features

- high calendered
- suitable for flexo and gravure printing
- suitable for waxing
- excellent opacity after waxing
- no added OBA
- excellent tear strength and gloss level
- very good twisting properties
- suitable for direct contact with foodstuff

## Your benefits

- very good printing results
- very good runnability

## Grammages

g/m <sup>2</sup>	42	45
Reels	•	•

Non-standard grammages available on request.





# Flexible Packaging Uncoated Papers

Brand	Characteristics	Print Process	Conversion Process	Application	g/m <sup>2</sup>	Certified for direct food contact	Sheet/Reel
Leine Kraft	MGBK uncoated	flexo, gravure	lamination, cold sealing, PE extrusion	flat bag, inner wrapper for confectionery, cigarette innerliner	30 - 120	✓	
Leine Mühle	MGBK uncoated lightweight	flexo, gravure	lamination, PE extrusion	cigarette innerliner, inner wrapper for confectionery	25 - 60	✓	
Leine Nature	MGBK uncoated	flexo, gravure	lamination, PE extrusion	food/snack wrapper, inner wrapper for confectionery	25 - 60	✓	
Leine Silk	MGBK uncoated lightweight	flexo, gravure	lamination	inner wrapper for confectionery, cigarette innerliner	18 - 35	✓	
Leine Teapack	MGBK uncoated	flexo, gravure	crimping	tea envelope	62, 70	✓	
MF Bright	uncoated MF paper	offset, flexo	lamination, varnishing, sealing, PE-coating	Shopping bags	70 - 130	✓	
MF Bright OF	uncoated MF paper without added OBA	offset, flexo	lamination, varnishing, sealing, PE-coating	Shopping bags	80 - 100	✓	
Twisting	MGBK uncoated	flexo, gravure	waxing	wraps for sweets and chewing gum	40	✓	

Flat bag	Food & snack wrapper	Inner wrapper for confectionery	Tea envelope	Shopping bags
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•

### Leine and MF Bright grades are:

- These paper grades are recyclable and available as FSC® and PEFC™ certified on request.
- The producing mills are ISO 9001, ISO 14001, ISO 50001, OHSAS 18001, FSC® and PEFC™ Chain of Custody certified and EMAS (Eco Management and Audit Scheme) registered.
- The producing mills are DIN EN 15593, suitable for direct contact with foodstuff. The Alfeld (Algro and Leine grades) mill is ISO 22000 certified, Management of hygiene in the production of packaging for foodstuffs.
- Samples can be ordered via email: [speciality.paper@sappi.com](mailto:speciality.paper@sappi.com)

### Twisting grades are:

- This paper grade is recyclable and available as FSC®.
- The producing mill is ISO 9001, ISO 14001, ISO 50001, OHSAS 18001 and FSC® certified.
- Samples can be ordered via email: [speciality.paper@sappi.com](mailto:speciality.paper@sappi.com)



A premium uncoated MF paper.

## Applications

Designed for shopping bags.

## Features

- high whiteness and smooth surface
- uncoated, machine finished
- suitable for offset and flexo printing
- taint and odour neutral
- suitable for direct contact with foodstuff
- excellent print and converting properties
- no added OBA (OF only)
- approved for application for toys

## Your benefits

- best appearance and brand differentiation
- excellent haptic experience (touch and feel)
- a sustainable and environmental-friendly solution

## Grammages

	g/m <sup>2</sup>	70	80	90	100	110	120	130
Sheets 	MF Bright	•	•	•				
	MF Bright OF	•	•	•	•	•	•	•
Reels 	MF Bright	•	•	•				
	MF Bright OF	•	•	•	•	•	•	•

Non-standard grammages available on request.



A universal MGBK uncoated paper with smooth top surface and high reverse side roughness.

## Applications

Designed for a wide range of flexible packaging and tobacco applications, such as inner wrapper for confectionery, bags and cigarette innerliner.

## Features

- good dimensional stability and high mechanical strengths
- good flatness and low curl tendency
- for gravure and flexo printing
- good lamination properties, such as filmic and aluminium lamination
- cold sealing and PE extrusion
- suitable for direct contact with foodstuff

## Your benefits

- natural colour
- hygienic, low taint and odour free for direct food contact
- both sides (rough and smooth) can be used for lamination
- extremely strong PE adhesion on reverse side
- superior machine and end use performance
- improved look of film laminate gloss
- widely approved in the tobacco industry
- good conversion speed and strong adhesion

## Grammages

g/m <sup>2</sup>	30	35	40	45	50	60	70	80	90	100	120
Sheets	☰								•	•	
Reels	○	•	•	•	•	•	•	•	•	•	•

Non-standard grammages available on request.



An MGBK uncoated paper with high bulk, good slittability and good lamination properties.

## Applications

Designed for confectionery applications (inner wrapper) and cigarette innerliner.

## Features

- for gravure and flexo printing
- for lamination (film and foil) and PE extrusion
- good stiffness
- good slitting properties and packing line properties
- suitable for direct contact with foodstuff

## Your benefits

- smooth glazed surface
- excellent glue acceptance
- high bulk increases yield and dead folding properties
- no dust when slitting
- soft feel and touch
- widely approved in the tobacco industry
- excellent adhesion to foil

## Grammages

g/m <sup>2</sup>	25	30	35	40	45	50	60
Reels 	•	•	•	•	•	•	•

Non-standard grammages available on request.



A home compostable MGBK uncoated paper.

## Applications

Innovative and environmentally friendly solution for flexible packaging applications, such as food/snack wrapper and inner wrapper for confectionery. When extrusion laminated with a cellulose based bio plastic with suitable barrier properties (mainly oxygen and water vapour barrier), this product offers you a compostable alternative to a traditional paper/oil-based film laminate.

## Features

- smooth top surface
- home and industrial composting and suitable for anaerobic digestion
- for gravure and flexo printing
- high bulk and good lamination properties
- good slitting properties
- for lamination and PE extrusion
- EN 13432 DIN CERTCO and "OK home compost" Vincotte/OWS certified
- suitable for direct contact with foodstuff

## Your benefits

- enable brand owners to use the compostable logo on their own packaging
- excellent glue acceptance
- no dust when slitting
- strong adhesive bonding, fibre tearing and consistent processing
- good packing line properties
- soft feel and touch

## Grammages

g/m <sup>2</sup>	25	30	35	40	45	50	60
Reels 	•	•	•	•	•	•	•

Non-standard grammages available on request.



A low weight MGBK uncoated paper with and without reverse side glazing.

## Applications

Designed for a wide range of flexible packaging applications, such as inner wrapper for confectionery and cigarette innerlinner.

## Features

- smooth top surface
- high mechanical strengths
- for gravure and flexo printing
- good bulk properties
- excellent lamination to foil and film
- suitable for direct contact with foodstuff

## Your benefits

- excellent glue acceptance
- no dust when slitting
- good packing line properties
- increased stiffness and whiteness versus other grades
- strong adhesive bonding, fibre tearing and consistent processing
- widely approved in the tobacco and confectionery industry
- improved machine and end use performance

## Grammages

	g/m <sup>2</sup>	18	21	22	25	30	35
Reels	•	•	•	•	•	•	•

Non-standard grammages available on request.



An MGBK uncoated paper with excellent crimping properties.

## Applications

Designed for tea envelopes.

## Features

- for gravure and flexo printing
- good slitting properties
- superior cold seal acceptance and grip
- suitable for direct contact with foodstuff

## Your benefits

- safe mechanical closing
- no dust when slitting
- clean die-cutting and removal of tabs
- increased stiffness
- high whiteness with no added OBA
- excellent runnability on the relevant tea packing lines

## Grammages

---

g/m <sup>2</sup>	62	70
Reels	•	•

---

Non-standard grammages available on request.



# sappi | Twisting

An MGBK uncoated paper with excellent twisting properties.

## Applications

Designed for special confectionary applications, such as wrappings for sweets and chewing-gum.

## Features

- high calendered
- suitable for flexo and gravure printing
- suitable for waxing
- excellent opacity after waxing
- no added OBA
- excellent tear strength
- very good twisting properties
- suitable for direct contact with foodstuff
- available also in brown colour

## Your benefits

- good printing results
- very good runnability

## Grammages

g/m <sup>2</sup>	40	45	50	60	70	80	90	92	95
Reels 	•	•	•	•	•	•	•	•	•

Non-standard grammages available on request.





# Label Papers

Label your brand. As premium.



# Label Papers

## For face stock and wet-glue labelling

### Face stock labelling

- Adicar 2
- Adicar Matt
- Adicar OGR
- Adicar WS AM Matt
- Parade Face Stock C1S/SG
- Parade Face Stock Vellum

### Wet-glue labelling

- Carcoat Repella O4
- Carcoat Repella L
- Labelcar HG
- Labelcar MT
- Labelcar 6 WS
- Parade Label A
- Parade Label G
- Parade Label HP
- LusterCote

Further products and related information you will find at [www.sappi.com](http://www.sappi.com)



# Label Papers

## For face stock and wet-glue labelling

Brand	Characteristics	Print Process	Conversion Process	Application	g/m <sup>2</sup>	Certified for direct food contact	Sheet/Reel	
Face stock labelling	Adicar 2	double coated, high gloss	offset, flexo, letterpress	laminating, metallizing	face stock of self-adhesive label applications and outside wrapping of flexible packaging	70 - 90	✓	卷
	Adicar Matt	double coated, matt	thermal transfer	laminating	face stock of self-adhesive label applications	62 - 90	✓	卷
	Adicar OGR	double coated, semi gloss	thermal transfer, letterpress, flexo and offset	laminating	face stock of self-adhesive label applications (especially oil and grease resistant)	70 - 90	✓	卷
	Adicar WS AM Matt	double coated, matt	letterpress and offset	laminating	face stock of self-adhesive label applications (especially for wine, champagne)	90	✓	卷
	Parade Face Stock C1S/SG	coated, gloss	offset, flexo and gravure	lamination	face stock of self adhesive label applications, such as adhesive sticker and price label	80	✓	卷
	Parade Face Stock Vellum	uncoated, calendered	offset, flexo, thermo transfer	lamination	"face stock of self adhesive label applications, such as adhesive sticker and price label"	68 - 80	✓	卷
Wet-glue labelling	Carcoat Repella O4	double coated	flexo, offset and gravure	wet-glue lamination	oil and grease resistant label	70 - 90	✓	叠卷
	Carcoat Repella L	double coated	flexo, offset and gravure	wet-glue lamination	oil and grease resistant label	70 - 90	✓	叠卷
	Labelcar HG	double coated, gloss	flexo, offset and gravure	metallization, wet-glue lamination	high gloss and metallised bottle labels for different beverages	75, 80	✓	叠卷
	Labelcar MT	coated, semi-gloss	flexo, offset and gravure	metallization, wet-glue lamination	metallised bottle labels for different beverages	55 - 70	✓	卷
	Labelcar 6 WS	double coated, semi-gloss	flexo and gravure	wet-glue lamination	semi-gloss bottle labels for different beverages	68 - 80	✓	卷
	Parade Label A	coated, gloss	offset	wet-glue lamination, varnishing, embossing	can and jar label, non-returnable bottle label, PET bottle label, PVC and PET container label, tamper evident seal, wine and spirit label	70 - 120	✓	叠卷
	Parade Label G	coated, gloss	gravure and flexo	wet-glue lamination, varnishing, embossing	can and jar label, non-returnable bottle label, PET bottle label, PVC and PET container label, tamper evident seal, wine and spirit label	70 - 120	✓	卷
	Parade Label HP	coated, semi-gloss	offset	wet-glue lamination, varnishing, embossing	can and jar label, non-returnable bottle label, PET bottle label, PVC and PET container label, tamper evident seal, wine and spirit label	70 - 90	✓	叠卷
	LusterCote	coated	offset, flexo and gravure	hot melt and wet adhesives, laminating, varnishing, embossing	for use with hot melt and wet adhesives on cut & stack labels, face stock, litho label, book dust jackets, envelopes, set up boxes and point of purchase display	81 - 141		叠卷

Parade grades are:

- Recyclable and available as FSC® or PEFC™ certified on request.
- The producing mill is ISO 9001, ISO 14001, ISO 50001, OHSAS 18001, FSC® and PEFC™ Chain of Custody certified and EMAS (Eco Management and Audit Scheme) registered.
- The producing mill of Parade Label A, G and HP and Parade Face Stock C1S is DIN EN 15593 and ISO 22000 certified, Management of hygiene in the production of packaging for foodstuffs.
- Samples can be ordered via email: [speciality.paper@sappi.com](mailto:speciality.paper@sappi.com)

Adicar, Carcoat and Labelcar grades are:

- Recyclable and available as FSC® certified on request.
- The producing mill is ISO 9001, ISO 14001, ISO 50001, OHSAS 18001, FSC® certified.
- The producing mill of is DIN EN 15593 certified, suitable for direct contact with foodstuff.
- Samples can be ordered via email: [speciality.paper@sappi.com](mailto:speciality.paper@sappi.com)

LusterCote is:

- Recyclable and delivered with SFI® Chain of Custody.
- FSC® or PEFC™ are also available upon request pending available credits.
- The producing mill is ISO 9001 and ISO 14001 certified.
- Samples can be ordered via email: [sappi@shore.net](mailto:sappi@shore.net)
- More information about LusterCote: [www.sappi.com](http://www.sappi.com)

A one side double coated glossy label paper with reverse side treatment.

## Applications

Designed for face stock of self-adhesive label applications (especially consumer goods, logistics and pharmaceutical labels) and for outside wrapping of flexible packaging.

## Features

- high calendered (super calendar)
- high gloss level with balanced whiteness and opacity
- also available with reverse side barrier treatment for aggressive adhesive
- suitable for all common printing processes, such as flexo, letterpress and offset printing
- suitable for metallization and lamination
- excellent flex-crack resistance
- suitable for direct contact with foodstuff

## Your benefits

- excellent printing results
- achieving high shelf impact and brand differentiation
- high operation speed
- high and consistent quality
- perfect fit for different advanced applications

## Grammages

g/m <sup>2</sup>	70	80	90
Reels	•	•	•

Non-standard grammages available on request.



A one side coated matt label paper with reverse side treatment (62 and 73 g/m<sup>2</sup>).  
A one side double coated matt label paper with reverse side treatment (90 g/m<sup>2</sup>).

## Applications

Designed for face stock of self-adhesive label applications, such as consumer goods and logistics labels. Non wet-strength wine labels (90 g/m<sup>2</sup>).

## Features

- extra matt (62 and 73 g/m<sup>2</sup>) and matt (90 g/m<sup>2</sup>)
- high brightness and smoothness
- suitable for thermal transfer printing
- suitable for lamination
- suitable for direct contact with foodstuff

## Your benefits

- excellent printing results
- achieving high shelf impact and brand differentiation
- high operation speed
- high and consistent quality
- perfect fit for different advanced matt label applications

## Grammages

g/m <sup>2</sup>	62	73	90
Reels 	•	•	•

Non-standard grammages available on request.



A double coated label paper with reverse side treatment.

## Applications

Designed for face stock of self-adhesive label applications, such as oil and grease resistant labels (e.g. tyres, olive oil bottles and greasy substrates like meat).

## Features

- calendered (super calendar)
- semi gloss
- oil and grease treatment without PFOA and PFOS
- suitable for thermal transfer, letterpress, flexo and offset printing
- suitable for lamination
- suitable for direct contact with foodstuff

## Your benefits

- excellent oil and grease barrier (Kit Test)
- good printing results
- achieving high shelf impact and brand differentiation
- high operation speed
- high and consistent quality
- perfect fit for different advanced grease and oily label applications

## Grammages

	g/m <sup>2</sup>	70	80	90
Reels	•	•	•	

Non-standard grammages available on request.



**sappi** | **Adicar**  
**WS AM Matt**

A double coated label paper with reverse side treatment.

## Applications

Designed for face stock of self-adhesive label applications, especially for wine, champagne and soft drink bottles.

## Features

- soft calendered (matt online finished)
- high brightness
- anti-mould treatment
- wet strength and alkali resistant
- suitable for letterpress and offset printing
- suitable for lamination
- suitable for direct contact with foodstuff

## Your benefits

- good printing results
- achieving high shelf impact and brand differentiation
- high operation speed
- high and consistent quality
- perfect fit for different label applications

## Grammages

---

g/m <sup>2</sup>	90
Reels	•

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Non-standard grammages available on request.



sappi | **Parade**  
Face Stock C1S

sappi | **Parade**  
Face Stock SG

A one side coated glossy paper designed for face stock applications.

## Applications

Designed for face stock of self-adhesive label applications, such as adhesive sticker and price labels

## Features

- outstanding brightness
- excellent topside smoothness
- superior reverse side roughness
- suitable for gravure, flexo and offset printing
- good sensorial properties
- suitable for direct contact with foodstuff

## Your benefits

- excellent print results
- achieving high shelf impact and brand differentiation
- high operation speed
- perfect fit for different applications
- high and consistent quality

## Grammages

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g/m<sup>2</sup> 80

---

Reels  •

Non-standard grammages available on request.



**sappi** | **Parade**  
Face Stock Vellum

A uncoated calandered paper designed for face stock applications.

## Applications

Designed for face stock of self-adhesive label applications, such as adhesive sticker and price labels

## Features

- excellent topside smoothness
- suitable for flexo, offset and thermo transfer printing
- good sensorial properties

## Your benefits

- excellent print results
- achieving high shelf impact and brand differentiation
- high operation speed
- perfect fit for different applications
- high and consistent quality

## Grammages

g/m <sup>2</sup>	68	70	80
Reels	•	•	•

Non-standard grammages available on request.



# sappi | Carcoat Repella O4

A double coated label paper with reverse side treatment (pigmentation).

## Applications

Designed for oil and grease resistant label applications, especially for oil bottle labels and outside wraps for oily and greasy products in flexible packaging.

## Features

- calendered (super calendar)
- oil and grease treatment without PFOA and PFOS
- suitable for flexo, offset and gravure printing
- smooth surface
- suitable for direct contact with foodstuff

## Your benefits

- excellent oil and grease barrier (Kit Test)
- good printing results
- achieving high shelf impact and brand differentiation
- excellent runnability on labelling process and high speed operation
- high and consistent quality
- perfect fit for different label applications

## Grammages

g/m <sup>2</sup>	70	80	90
Reels 	•	•	•
Sheets 	•	•	•

Non-standard grammages available on request.



A double coated label paper with reverse side treatment (pigmentation).

## Applications

Designed for oil and grease resistant label applications, especially for oil bottle labels and outside wraps for oily and greasy products in flexible packaging.

## Features

- calendered (super calendar)
- oil and grease treatment without PFOA and PFOS
- suitable for flexo, offset and gravure printing
- smooth surface
- suitable for direct contact with foodstuff

## Your benefits

- very good oil and grease barrier (Kit Test)
- good printing results
- achieving high shelf impact and brand differentiation
- excellent runnability on labelling process and high speed operation
- high and consistent quality
- perfect fit for different label applications

## Grammages

	g/m <sup>2</sup>	70	80	90
Reels	○	●	●	●
Sheets	○	●	●	●

Non-standard grammages available on request.



A double coated label paper with reverse side treatment.

## Applications

Designed for labels of returnable and non-returnable bottles in the beverage industry, such as beer, soft drinks, wine and liquor.

## Features

- high dimensional stability
- high wet-strength and alkali resistance
- excellent surface, high gloss and brightness
- rough reverse side
- suitable for flexo, offset and gravure printing
- excellent metallization properties and metallic inks

## Your benefits

- very good printing and metallization results
- achieving high shelf impact and brand differentiation
- good runnability on labelling process
- high and consistent quality
- perfect fit for different label applications (especially meeting the requirements of the beer industry)

## Grammages

g/m <sup>2</sup>	75	80
Reels 	•	•
Sheets 	•	•

Non-standard grammages available on request.



A one side coated MG Kraft label paper

## Applications

Designed for labels of returnable and non-returnable bottles in the beverage industry, such as beer and soft drinks.

## Features

- high dimensional stability
- high wet-strength and alkali resistance
- very good ink retention
- smooth top side and rough reverse side
- suitable for flexo, offset and gravure printing
- excellent metallization properties

## Your benefits

- very good printing and metallization results
- achieving high shelf impact and brand differentiation
- high and consistent quality
- perfect fit for different label applications (especially meeting the requirements of the beer industry)

## Grammages

g/m <sup>2</sup>	55	60	65	68	70
Reels 	•	•	•	•	•

Non-standard grammages available on request.



# sappi | Labelcar 6 WS

A one side double coated label paper with reverse side treatment (pigmentation).

## Applications

Designed for labels of returnable and non-returnable bottles in the beverage industry, such as beer and soft drinks (especially neck labels).

## Features

- high wet-strength
- alkali resistance
- suitable for flexo, offset and gravure printing

## Your benefits

- very good printing results
- good runnability on labelling process
- high and consistent quality
- perfect fit for different label applications (especially meeting the requirements of the beer industry)

## Grammages

g/m <sup>2</sup>	68	70	75	80
Reels	•	•	•	•

Non-standard grammages available on request.



A one side coated label paper designed for labels with high demanding print results and excellent optical appearance.

## Applications

For wet-glue labelling of can and jar, non-returnable bottle, PET, PVC and PET container, wine and spirit, tamper evident seal, face stock.

## Features

- outstanding brightness
- excellent topside smoothness
- superior reverse side roughness
- suitable for offset printing
- good sensorial properties
- suitable for direct contact with foodstuff

## Your benefits

- excellent print results
- achieving high shelf impact and brand differentiation
- high operation speed
- perfect fit for different applications
- high and consistent quality

## Grammages

	70	80	90	100	120
Sheets 	•	•	•	•	•
Reels 	•	•	•	•	•

Non-standard grammages available on request.



# sappi | Parade Label G

A one side coated label paper designed for gravure printing.

## Applications

For wet-glue labelling of can and jar, non-returnable bottle, PET, PVC and PET container, wine and spirit, tamper evident seal.

## Features

- outstanding brightness
- excellent gloss
- high topside smoothness
- superior reverse side roughness
- suitable for direct contact with foodstuff

## Your benefits

- excellent gravure and flexo printing results
- achieving high shelf impact and brand differentiation
- high operation speed
- perfect fit for different applications
- high and consistent quality

## Grammages

g/m <sup>2</sup>	70	80	90	100	120
Reels 	•	•	•	•	•

Non-standard grammages available on request.



A one side coated label paper designed for most demanding labelling lines.

## Applications

For wet-glue labelling of can and jar, non-returnable bottle, PET, PVC and PET container, wine and spirit, tamper evident seal.

## Features

- surface with a matt finish
- good flatness and excellent stiffness
- high bulk
- reverse side roughness
- suitable for offset printing
- suitable for direct contact with foodstuff

## Your benefits

- the best converting features for multi-applications
- high operation speed
- bulk advantage leading to cost efficiency
- works perfectly at extreme climate conditions
- high and consistent quality

## Grammages

g/m <sup>2</sup>	70	80	90
Reels	•	•	•

Non-standard grammages available on request.



# sappi | LusterCote

Developed to deliver the brand owners message with excellence, LusterCote offers a high level of brightness, print performance and production efficiency.

## Applications

For use with hot melt and wet adhesives on cut & stack labels, face stock, litho label, book dust jackets, envelopes, set up boxes and point of purchase display, and yoghurt banderoles.

## Features

- excellent brightness and optical quality
- superior print performance using conventional and UV curable inks
- suitable for offset, flexo and gravure printing
- unique back-side coating
- consistent laminating qualities with a wide range of adhesives

## Your benefits

- delivers the brand owners message with accuracy and excellence
- superb print results
- high operational efficiency
- wide range of applications

## Grammages

Lb / 3300 sf	55	60	65	70	80	95
g/m <sup>2</sup>	81	89	96	104	118	141
Sheets	•	•	•	•	•	•
Reels	•	•	•	•	•	•

Non-standard grammages available on request.





# Functional Papers

Cutting-edge paper solutions.  
Made of 100 % future.



FUNCTIONAL  
PAPERS

# Functional Papers

## For high-barrier paper-based packaging solutions

### High-barrier paper-based packaging solutions

- Guard Gloss 4-OHG
- Guard Nature 4-OHG

### Mineral oil barrier papers

- Guard Silk 1-M
- Guard Nature 1-M

### Grease resistance bag paper

- LusterPrint

### Paper with integrated sealing properties

- Seal Silk 3-01



# Functional Papers

## Paper-based solutions with integrated functionalities

Brand	Characteristics	Print Process	Conversion Process	Application	g/m <sup>2</sup>	Certified for direct food contact	Sheet/Reel
Guard Gloss 4-OHG	coated, MG base, with multi barriers on reverse side, heat-sealable	gravure and flexo	not necessary because of integrated barrier solution	designed for food and non-food applications. A paper-based packaging solution to replace multi-layer barrier films and foils with a high share of renewable sources.	81, 91	✓	⌚
Guard Nature 4-OHG	uncoated paper, MG base, with multi barriers on reverse side, heat-sealable	flexo	not necessary because of integrated barrier solution	designed for food and non-food applications. A paper-based packaging solution to replace multi-layer barrier films and foils with a high share of renewable sources.	61	✓	⌚
Guard Silk 1-M	coated, MG base, with mineral oil barrier on reverse side	gravure and flexo	not necessary because of integrated barrier solution	designed for the food industry; especially dry and fatty food, such as rice, pasta, cereal and chocolate	85 - 115	✓	⌚
Guard Nature 1-M	uncoated, MG base, with mineral oil barrier on reverse side	gravure and flexo	not necessary because of integrated barrier solution	designed for the food industry; especially inner bag for dry and fatty food, such as rice, pasta and cereal	75 - 105	✓	⌚
LusterPrint	coated packaging paper formulated with or without grease resistance	offset, flexo and gravure	lamination	ideal for a wide variety of products, from those requiring grease resistance to those that require only high strength and a superb printed image, such as pet food, popcorn, coffee, cookies and donuts, confectionary and seeds	67 - 122	✓	⌚
Seal Silk 3-01	one side coated paper with heat sealing functionality on reverse side	gravure and flexo	heat sealability	designed for standard flexible packaging in the food and non-food markets, which requires heat sealing properties, this includes primary and secondary packaging	67	✓	⌚

Mineral oil barrier	Oxygen barrier	Water vapor barrier	Grease barrier	Heat sealable	Grease resistance	Heat sealability
•	•	•	•	•	•	•
•	•	•	•	•	•	•
•						
•						
					•	
				•		

### Sappi Guard Gloss 4-OHG, Nature 4-OHG, Silk 1-M, Nature 1-M:

- These paper grades are recyclable and available as FSC® and PEFC™ certified on request.
- The producing mill is ISO 9001, ISO 14001, ISO 50001, OHSAS 18001, FSC® and PEFC™ Chain of Custody certified and EMAS (Eco Management and Audit Scheme) registered.
- The producing mill is DIN EN 15593 and ISO 22000 certified, Management of hygiene in the production of packaging for foodstuffs.
- Samples can be ordered via email: [speciality.paper@sappi.com](mailto:speciality.paper@sappi.com)

### LusterPrint is:

- Recyclable and delivered with SFI® Chain of Custody.
- FSC® or PEFC™ are also available upon request pending available credits.
- The producing mill is ISO 9001 and ISO 14001 certified.
- Samples can be ordered via email: [sappi@shore.net](mailto:sappi@shore.net)
- More information about LusterPrint: [www.sappi.com](http://www.sappi.com)

### Sappi Seal Silk 3-01:

- These paper grades are recyclable and available as FSC® and PEFC™ certified on request.
- The producing mill is ISO 9001, ISO 14001, ISO 50001, OHSAS 18001, FSC® and PEFC™ Chain of Custody certified and EMAS (Eco Management and Audit Scheme) registered.
- Suitable for direct contact with foodstuff
- Samples can be ordered via email: [speciality.paper@sappi.com](mailto:speciality.paper@sappi.com)



# sappi | Guard Gloss 4-OHG

One side coated glossy paper with functional high barrier coating on reverse side and heat sealability.

## Applications

Designed for flow-wraps, sachets and pouches:

- the food market, such as noodles, rice, confectionary, powdered products, cereals, crisps and other dry and fatty food ingredients
- the non-food market, such as dishwasher tabs and seeds

## Features

- integrated paper based solution
- material based on > 80% renewable sources
- high barrier functionalities (oxygen, water vapor, grease, mineral oil and aroma)
- heat sealability
- excellent printing results; gravure and flexo printing
- suitable for direct contact with foodstuff
- good converting properties

## Your benefits

- high efficient food safety
- excellent optical appearance
- premium look and feel
- high value impression
- paper-based solution to replace multi-layer barrier films and foil

## Grammages

g/m <sup>2</sup>	81	91
Reels	•	•

Non-standard grammages available on request.



Uncoated paper with functional high barrier coating on reverse side and heat sealability.

## Applications

Designed for flow-wraps, sachets and pouches:

- the food market, such as noodles, rice, confectionary, powdered products, cereals, crisps and other dry and fatty food ingredients
- the non-food market, such as dishwasher tabs and seeds

## Features

- integrated paper based solution
- material based on > 80% renewable sources
- high barrier functionalities (oxygen, water vapor, grease, mineral oil and aroma)
- heat seal ability
- good printing results; flexo printing
- suitable for direct contact with foodstuff
- good converting properties

## Your benefits

- high efficient food safety
- excellent optical appearance
- natural look and feel
- high value impression
- paper-based solution to replace multi-layer barrier films and foil

## Grammages

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g/m<sup>2</sup> 61

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Reels  •

Non-standard grammages available on request.



One side coated paper with mineral oil barrier.

## Applications

Designed for the food industry, especially dry and fatty food, such as rice, pasta, cereal and chocolate; liner for corrugated transport boxes.

## Features

- sustainable barrier against mineral oil for a minimum of 15 months
- suitable for gravure and flexo printing
- recyclable and repulpable
- suitable for direct contact with foodstuff

## Your benefits

- cost efficient packaging solution
- reduction of converting process steps
- minimize failure and quality risks
- good converting process properties
- environmentally friendly

## Grammages

g/m <sup>2</sup>	85	100	115
Reels	•	•	•

Non-standard grammages available on request.



Uncoated paper with mineral oil barrier.

## Applications

Designed for the food industry, especially dry and fatty food, such as rice, pasta, cereal and chocolate; liner for corrugated transport boxes.

## Features

- sustainable barrier against mineral oil for a minimum of 15 months
- recyclable and repulpable
- suitable for direct contact with foodstuff

## Your benefits

- cost efficient packaging solution
- reduction of converting process steps
- minimize failure and quality risks
- good converting process properties
- environmentally friendly

## Grammages

g/m <sup>2</sup>	75	90	105
Reels	•	•	•

Non-standard grammages available on request.



# sappi | LusterPrint

A proven winner for multi or single wall bag applications, LusterPrint is the clay coated outer ply, providing a high-end printing surface and grease resistance where needed.

## Applications

Ideal for a wide variety of products, from those requiring grease resistance to those that require only high strength and a superb printed image, such as pet food, popcorn, coffee, cookies and donuts, corn flour, confectionary and seeds.

## Features

- LusterPrint GR3 max is formulated for grease resistance
- complies with FDA regulations for contact with aqueous and fatty foods and dry foods
- outstanding ink gloss
- high strength
- environmentally responsible

## Your benefits

- excellent print reproduction
- suitable for use with a wide range of food and non-food grades
- provides exceptional bag strength and high performance in dynamic filling operations
- proprietary coating and calendaring process for superior printing efficiency

## Grammages

LB / 3000 sf	41	45	50	55	68
g/m <sup>2</sup>	67	74	81	90	122
LusterPrint GR3 Treated	•	•	•		
LusterPrint GRL Treated	•	•	•		•
LusterPrint Untreated	•	•	•	•	

Reels only.



Uncoated paper with sealing properties.

## Applications

Designed for the food industry; especially inner bag for dry and fatty food, such as rice, pasta and cereal and packaging for non-food products.

## Features

- recyclable and repulpable
- suitable for direct contact with foodstuff

## Your benefits

- cost efficient packaging solution
- reduction of converting process steps
- minimize failure and quality risks
- good converting process properties
- environmentally friendly

## Grammages

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g/m <sup>2</sup>	67
Reels	•

Non-standard grammages available on request.

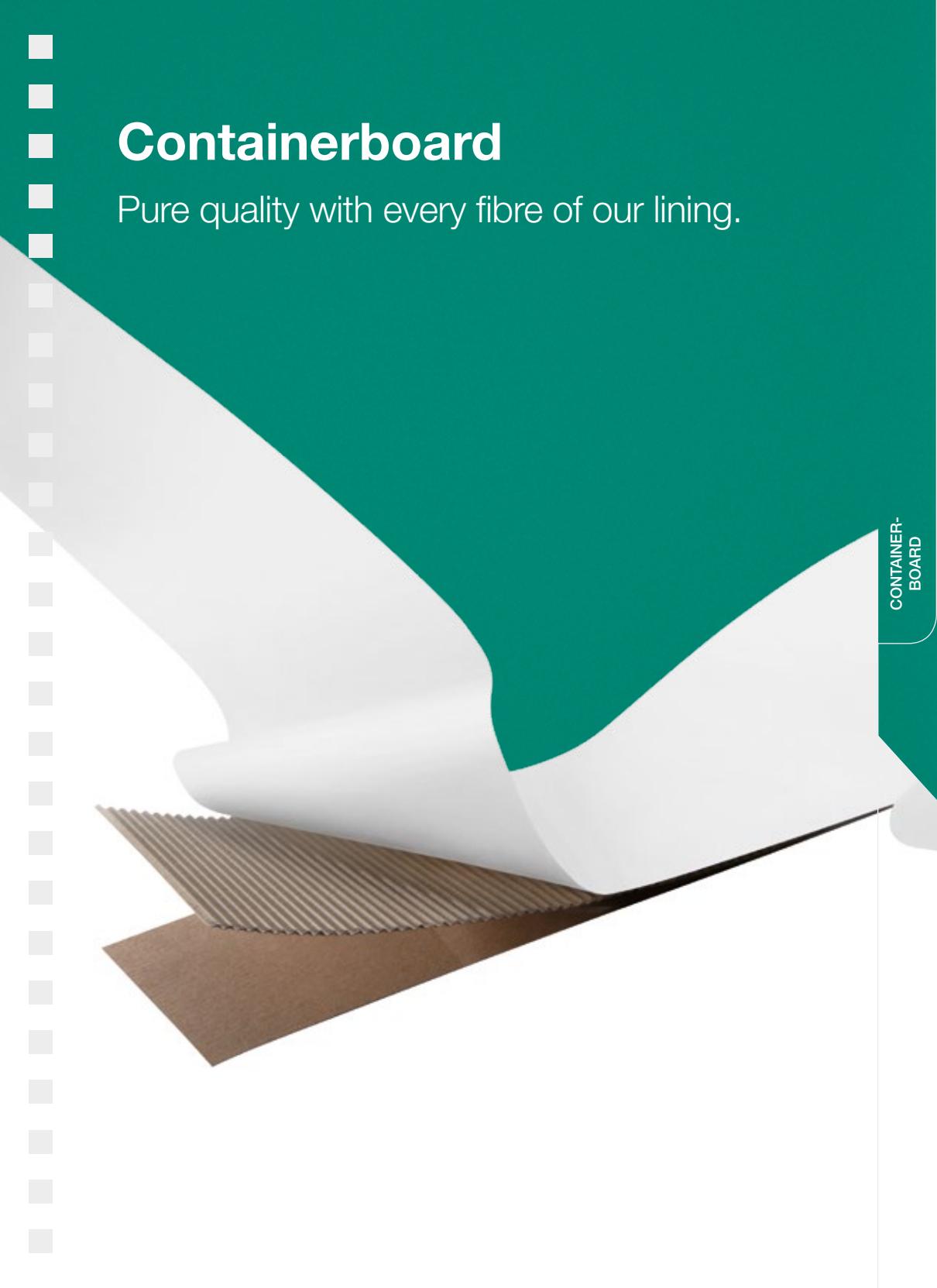






# Containerboard

Pure quality with every fibre of our lining.



CONTAINER-  
BOARD

# Containerboard

## For corrugated packaging solutions

### Topliner and Liner

- Fusion Topliner
- Fusion Uncoated
- Fusion Uncoated OF
- Kraftpride
- Algro Design

### Fluting

- Fusion Uncoated
- Fusion Uncoated OF
- Ultraflute



# Containerboard

## Topliner, Liner and Fluting

	Brand	Characteristics	Print Process	Conversion Process	Application	g/m <sup>2</sup>	Certified for direct food contact	Sheet/Reel
Topliner and liner	Fusion Topliner	one side double coated premium white topliner, glossy, high brightness, enhanced colour reproduction, high contrast, optimal runnability	offset, flexo, screen, digital	lamination to corrugated board, die-cutting, creasing, hot foil stamping, embossing, spot varnishing	lamination to corrugated board for the manufacturing of displays, shelf-ready packaging, consumer packaging, fast food packaging, mailing envelope, Point of Sale (POS) material	90 - 180	✓	
	Fusion Uncoated	white uncoated with impressive brightness and functionality	offset, flexo, screen, digital	lamination to corrugated board, die-cutting, creasing, hot foil stamping, embossing, spot varnishing	lamination to corrugated board for the manufacturing of displays, shelf-ready packaging, consumer packaging, fast food packaging, mailing envelope, Point of Sale (POS) material	70 - 130	✓	
	Fusion Uncoated OF	white uncoated with natural shade (no added OBAs) and functionality	offset, flexo, screen, digital	lamination to corrugated board, die-cutting, creasing, hot foil stamping, embossing, spot varnishing	lamination to corrugated board for the manufacturing of displays, shelf-ready packaging, consumer packaging, fast food packaging, mailing envelope, Point of Sale (POS) material	70 - 130	✓	
	Kraftpride	3 ply virgin kraft liner	flexo	corrugating agricultural and industrial cartons, die-cutting, creasing	lamination to fluting for agricultural and industrial cartons	140 - 330	✓	
	Algro Design	one side double coated SBB board, smooth silky surface, high brightness, vivid colours, high contrast, optimal runnability	offset, flexo, screen	lamination to corrugated and solid board, foil and film lamination, hot foil stamping and cold foil transfer, die-cutting, creasing, embossing, varnishing (UV, water, conventional)	lamination to corrugated and solid board for the manufacturing of display-POS material, promotional material, consumer packaging, gift boxes, game and puzzle boxes, folding boxes, graphic applications and high-quality packaging	160 - 400	✓	
	Fusion Uncoated	white uncoated with impressive brightness and functionality	converting to corrugated board, die-cutting, creasing	designed as fluting material for corrugated board	designed as fluting material for corrugated board	70 - 130	✓	
Fluting	Fusion Uncoated OF	white uncoated with natural shade (no added OBAs) and functionality	converting to corrugated board, die-cutting, creasing	designed as fluting material for corrugated board	designed as fluting material for corrugated board	70 - 130	✓	
	Ultraflute	premium fluting made from virgin NSSC fibre (brown colored semi-chemical fluting), high strength and convertibility	converting to corrugated board, die-cutting, creasing	agricultural and industrial cartons, consumer & shelf-ready packaging in combination with FusionTopliner, KraftPride and UltraTest, its ideally suited for high-end, heavy duty market applications which endure rigorous conditions within the supply chain	agricultural and industrial cartons, consumer & shelf-ready packaging in combination with FusionTopliner, KraftPride and UltraTest, its ideally suited for high-end, heavy duty market applications which endure rigorous conditions within the supply chain	125 - 180	✓	

## Fusion Topliner and Fusion Uncoated/Fusion Uncoated OF:

- These paper grades and paperboards are recyclable and available as FSC® and PEFC™ certified on request.
- The producing mills are ISO 9001, ISO 50001, OHSAS 18001 and ISO 14001 Chain of Custody certified and EMAS (Eco Management and Audit Scheme) registered.
- Samples can be ordered via email: [speciality.paper@sappi.com](mailto:speciality.paper@sappi.com)

## Kraftpride:

- These paperboards are recyclable and available as FSC®.
- The producing mills are ISO 9001 and ISO 14001 certified.
- KraftPride has been tested for compliance with heavy metals and cadmium as specified by BfR Recommendation XXXVI-Paper and board for Food contact.

## Ultraflute:

- These paper grades are recyclable and available as FSC® certified.
- The producing mill is ISO 9001, ISO 14001.
- UltraFlute was tested and complies with the requirements of FDA 176.170 (contact with aqueous and fatty foods) and FDA 176.180 (contact with dry food).

The premium white topliner made from 100% virgin fibres. Front side double coated topliner with functional reverse side coating for excellent reverse side hold out.

## Applications

Designed for lamination onto corrugated and solid boards.

## Features

- high brightness, whiteness and print gloss
- for flexo pre and postprint, offset, digital and screen print
- calendered surface
- excellent laminating properties and good mechanical properties
- for all finishing techniques such as hot foil stamping, embossing, UV-spot varnishing
- taint and odour neutral
- suitable for direct contact with foodstuff

## Your benefits

- better colour reproduction and printability
- no washboarding effect
- higher shelf impact thanks to superior conversion surface
- smooth performance on converting lines, significantly reduced wash-up times in print press (Offset) and significantly reduced glue consumption in laminating process
- reduced transport, handling and storage costs
- reduced glue drying times
- for the packaging of sensitive goods - zero risk of contamination of food or other sensitive goods from ink residue

## Grammages

	g/m <sup>2</sup>	90	100	115	135	160	180
Sheets		•	•	•	•	•	•
Reels		•	•	•	•	•	•



# sappi | Fusion Uncoated

White, uncoated liner with impressive brightness and functionality.

## Applications

Designed as liner, fluting and topliner for corrugated board and solid board applications.

## Features

- high brightness and whiteness
- suitable for flexo pre and postprint, offset, digital and screen print
- uncoated surface
- excellent laminating and good mechanical properties
- taint and odour neutral
- suitable for direct contact with foodstuff

## Your benefits

- good printability and optical results
- no washboarding effect
- fresh and clean look
- high bulk and stiffness
- excellent runnability and processing efficiency

## Grammages

	70	80	90	100	110	120	130
Sheets	•	•	•	•	•	•	•
Reels	•	•	•	•	•	•	•

Non-standard grammages available on request.



# sappi | Fusion Uncoated OF

White, uncoated liner with natural shade and functionality.

## Applications

Designed as liner, fluting and topliner for corrugated board and solid board applications.

## Features

- natural shade (no added OBA)
- suitable for flexo pre and postprint, offset, digital and screen print
- uncoated surface
- excellent laminating and good mechanical properties
- taint and odour neutral
- suitable for direct contact with foodstuff

## Your benefits

- good printability and optical results
- no washboarding effect
- fresh and clean look
- high bulk and stiffness
- excellent runnability and processing efficiency

## Grammages

g/m <sup>2</sup>	70	80	90	100	110	120	130
Sheets	•	•	•	•	•	•	•
Reels	•	•	•	•	•	•	•

Non-standard grammages available on request.



A semi-chemical flute made with virgin NSSC fibre, a preferred choice for maximizing machine performance and runnability. It's ideally suited for the high-end, heavy duty market applications which endure rigorous conditions within the supply chain.

## Applications

Designed for agricultural and industrial applications including shelf-ready packaging in combination with FusionTopliner and Kraftpride.

## Features

- superior strength characteristics
- high humidity performance with better strength retention over longer period
- better yield using less paper to achieve the same results
- lightweight flexibility
- improved convertibility opportunities

## Your benefits

- prevent boxes collapsing and improved stacking strength
- retaining strength for longer periods in cyclic humidity conditions
- more competitively priced end-use products and reduced road, air and sea-freight costs
- maximising machine performance and runnability
- cost advantage for customers due to its strength and convertibility characteristics
- resulting in an improved yield, using less paper to achieve the same results
- cost savings on end-use product whilst still meeting the required performance standards

## Grammages

g/m <sup>2</sup>	125	140	150	165	180
Reels	•	•	•	•	•



Kraftpride is a 3 ply virgin linerboard.

## Applications

Designed for agricultural and industrial applications.

## Features

- superior burst
- high humidity performance
- extended grammage range

## Your benefits

- combination of strength properties prevents boxes from collapsing
- greater aesthetic appeal of graphics on end-use boxes to differentiate from your competitors
- performs well under cyclic humidity conditions
- versatility in paper combinations for box quality with lightweight advantages

## Grammages

g/m <sup>2</sup>	140	175	195	220	250	300	330
Reels 	•	•	•	•	•	•	•



A one side double coated solid bleached cartonboard (SBB) with a remarkable silky touch.

## Applications

For lamination to solid and corrugated boards. Algro Design is the standard in colour reproduction.

## Features

- superior brightness and high UV light fastness
- high stiffness
- superior colour reproduction and increased colour range
- for offset, screen and flexo printing
- excellent shaping, print and converting properties
- suitable for all finishing techniques such as hot foil and UV-spot varnishing
- excellent embossing properties
- taint and odour neutral
- suitable for direct contact with foodstuff
- migration of certain elements tested according to toy safety EN 71 part 3

## Your benefits

- no washboarding effect
- fresh and clean look, highest resistance to aging
- cartonboard bulk and stiffness versus other liners
- excellent printability and runnability
- very good drying conditions
- maximum processing efficiency

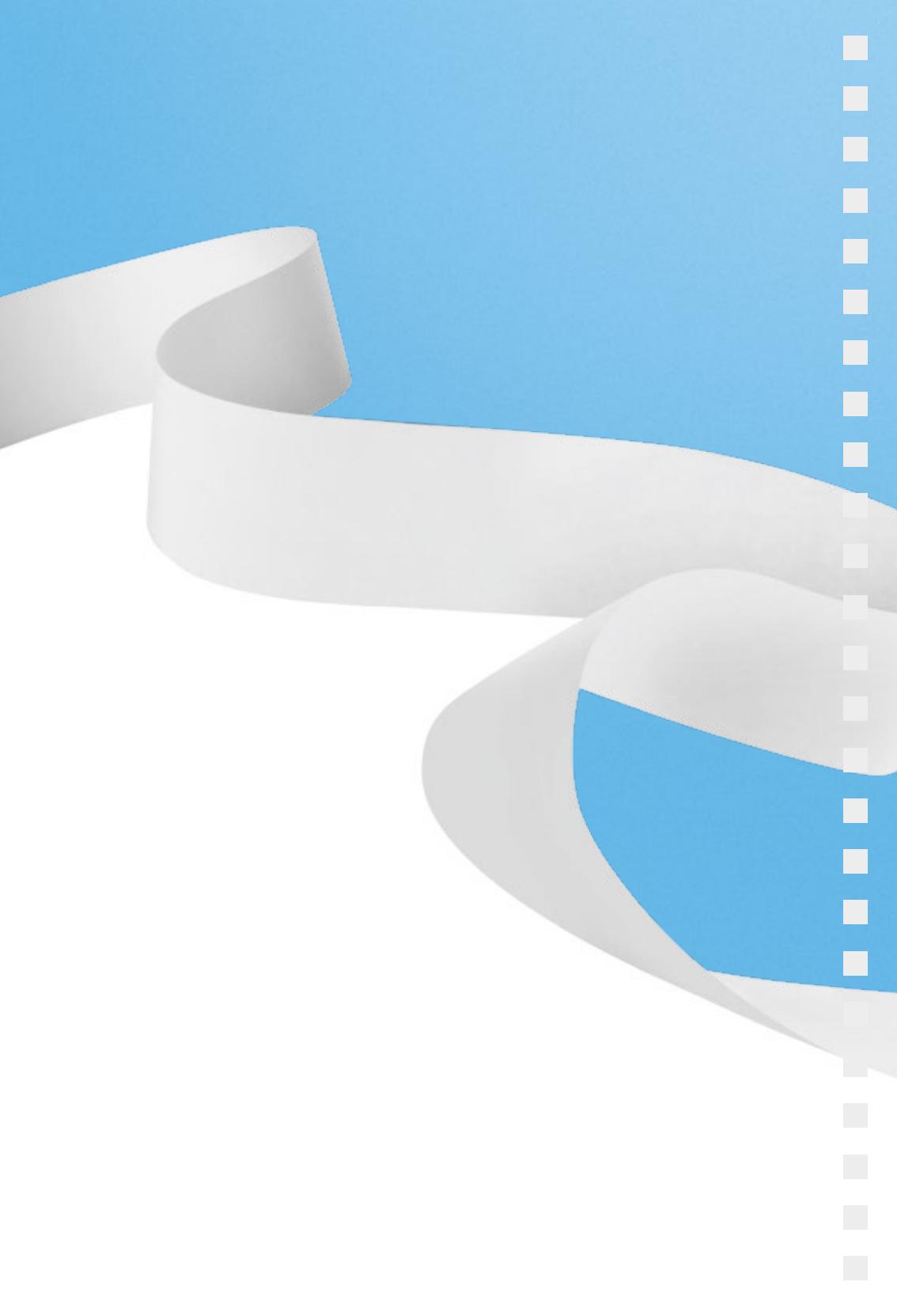
## Grammages

g/m <sup>2</sup>	160	220	240	270	300	330	350	380	400
Sheets	•	•	•	•	•	•	•	•	•
Reels	•	•	•	•	•	•	•	•	•

Non-standard grammages available on request.

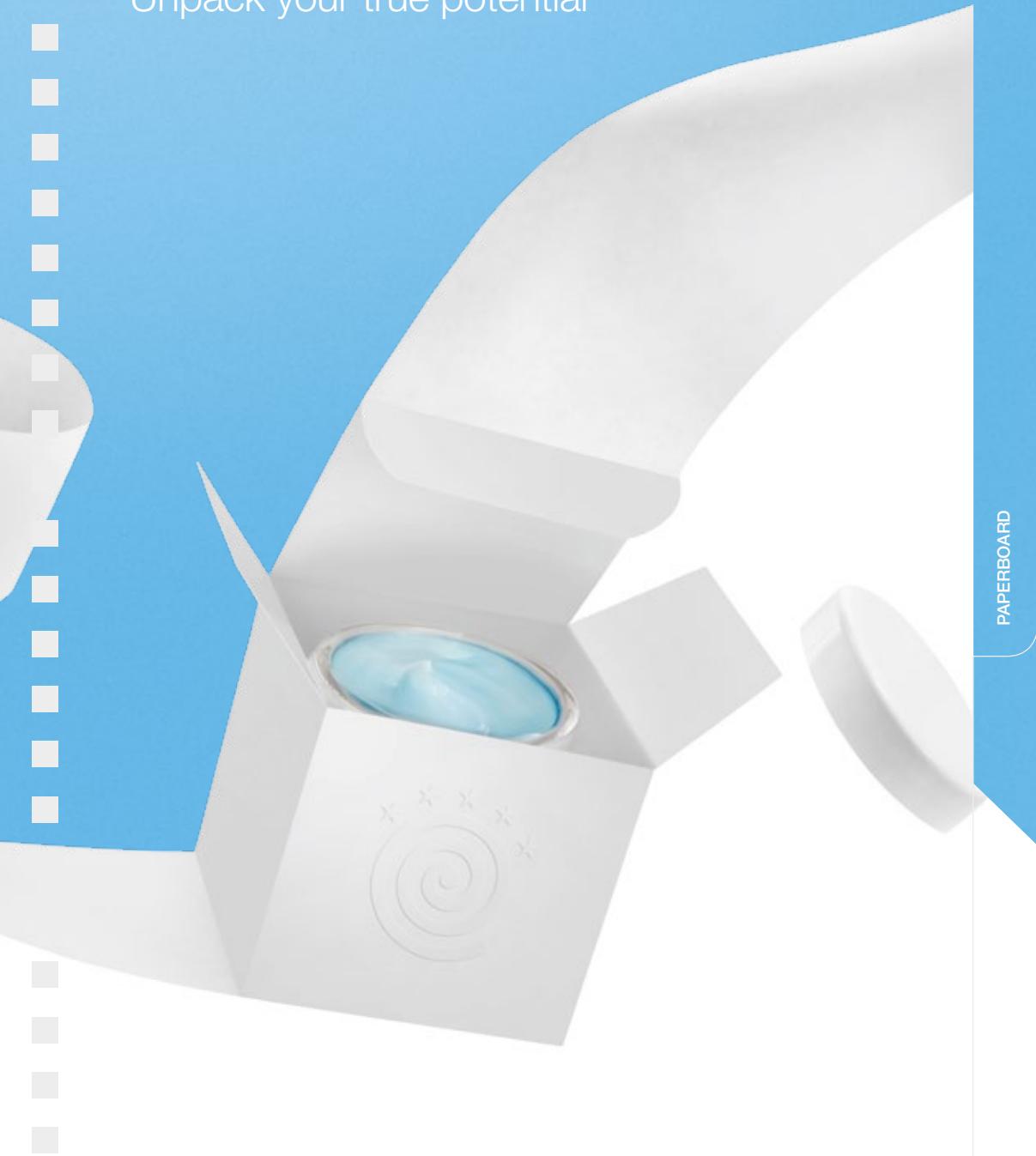






# Paperboard

Unpack your true potential



PAPERBOARD

# Paperboard

## For premium packaging and graphic applications

### Grades from European mills

#### Solid Bleached Board (SBB)

- Algro Design
- Algro Design Card
- Algro Design Duo

#### Folding Box Board 1 (FBB)

- Atelier

### Grades from North American mill

#### Solid Bleached Board (SBB)

- Spectro C1S
- Spectro C2S
- Proto
- Proto Litho
- LusterFSB



# Paperboard

## Solid Bleached Board (SBB)

## Folding Boxboard (FBB)

Brand	Characteristics	Print Process	Conversion Process	Application	g/m <sup>2</sup>	Certified for direct food contact	Sheet/Reel	
Algro Design	one side double coated SBB board, smooth silky surface, high brightness, vivid colours, high contrast, optimal runnability	offset, flexo, screen	die-cutting, creasing, hot foil stamping, embossing, varnishing, film lamination	packaging and graphic applications	160 - 400	✓		
Algro Design Card	one side double coated and one side single coated SBB board, smooth silky surface, high brightness, vivid colours, high contrast, optimal runnability	offset, flexo, screen	die-cutting, creasing, hot foil stamping, embossing, varnishing, film lamination	packaging and graphic applications	235 - 345	✓		
Algro Design Duo	both sides double coated SBB board, smooth silky surface, high brightness, vivid colours, high contrast, optimal runnability	offset, flexo, screen	die-cutting, creasing, hot foil stamping, embossing, varnishing, film lamination	packaging and graphic applications	250 - 500	✓		
SBB	Spectro C1S	coated one side SBB board, reverse side lightly coated, smooth surface, high brightness, vivid colours, high contrast, optimal runnability	offset, flexo	die-cutting, creasing, hot foil stamping, embossing, varnishing, film lamination	packaging and graphic applications	177 - 396	✓	
	Spectro C2S	coated two side SBB board, smooth surface, high brightness, vivid colours, high contrast, optimal runnability	offset, flexo	die-cutting, creasing, hot foil stamping, embossing, varnishing, film lamination	packaging and graphic applications	189 - 451	✓	
	Proto	coated one side SBB board, reverse side lightly coated, smooth surface, vivid colours, high contrast, high bulk, optimal runnability	offset, flexo	die-cutting, creasing, hot foil stamping, embossing, varnishing, film lamination	packaging and graphic applications	177 - 396	✓	
	Proto Litho	coated one side SBB board, reverse side lightly coated, smooth surface, vivid colours, high contrast, high bulk, optimal runnability	offset, flexo	die-cutting, creasing, hot foil stamping, embossing, varnishing, film lamination	packaging and graphic applications	177 - 230	✓	
	LusterFSB	coated one side SBB board, reverse side lightly coated, smooth surface, vivid colours, high contrast, high bulk, optimal runnability	offset, flexo	die-cutting, creasing, hot foil stamping, embossing, varnishing, film lamination	food packaging applications	230 - 396	✓	
	Atelier	front side double coated, reverse side light coated FBB board, ultimate brightness, purity, high carton board gloss with a silk touch and feel, unrivaled bulk	offset, flexo, screen	die-cutting, creasing, hot foil stamping, embossing, varnishing, film lamination	packaging and graphic applications	220 - 350	✓	

Algro Design grades are certified:

- Recyclable and available as FSC® or PEFC™ certified on request.
- Suitable for use in Nordic Ecolabelled printed products.
- The producing mill is ISO 9001, ISO 14001, ISO 50001 OHSAS 18001, FSC® and PEFC™ Chain of Custody certified and EMAS ISO 22000 (Eco Management and Audit Scheme) registered.
- The producing mill is certified, Management of hygiene in the production of packaging for foodstuffs.
- Samples can be ordered via email: [speciality.paper@sappi.com](mailto:speciality.paper@sappi.com)

Atelier grades are certified:

- Recyclable and available as FSC® or PEFC™ certified on request.
- Suitable for use in Nordic Ecolabelled printed products.
- The producing mill is ISO 9001, ISO 14001, ISO 50001 OHSAS 18001, FSC® and PEFC™ Chain of Custody certified and EMAS ISO 22000 (Eco Management and Audit Scheme) registered.
- Samples can be ordered via email: [speciality.paper@sappi.com](mailto:speciality.paper@sappi.com)

Spectro™, Proto™, Proto™ Litho, LusterFSB™ are certified:

- Recyclable and delivered with SFI® Chain of Custody.
- FSC® or PEFC™ are also available upon request pending available credits.
- The producing mill is ISO 9001, ISO 14001, and OHSAS 18001 certified.
- The Products are compliant with U.S. FDA Title 21 §CFR sections 176.170 and 176.180 (restrictions may apply), Canada Food and Drug Regulations Section 23, the Model Toxics in Packaging Legislation (formerly known as CONEG) and Directive 94/62/EC. Materials listed on the Canada EPA Chemical Challenge List, the ECHA Candidate List of Substances of Very High Concern or listed in the RoHS legislation are not used in the manufacture of these products.
- California Proposition 65 – no product labeling is required.
- REACH Regulation 1907/2006/EC – The products are classified as Articles and registration is not required.
- Elemental Chlorine Free (ECF)
- More information on [www.sappi.com](http://www.sappi.com)

# sappi | Algro Design

Your complete solution for premium packaging and graphic applications. Recognized for superior brightness and a remarkable silky touch, Algro Design has become the standard in colour reproduction.

## Features

- top side double coated, reverse side uncoated
- high brightness
- high UV light fastness
- suitable for offset, screen and flexo printing
- excellent shaping, print, finishing and converting properties
- taint and odour neutral
- suitable for direct contact with foodstuff

## Your benefits

- brilliant colour reproduction
- outstanding contrast
- increased colour gamut
- improved readability
- increased shelf impact
- unique brand differentiation
- intensified brand focus:
  - maximum precision and performance in demanding applications
  - high value perception
  - immaculate results
  - innovative brand transformation
- A unique “one stop shop” marketing solution: total brand impact and highest consistency in all your packaging and graphic jobs - with near to identical look, shade and feel.

## Grammages

g/m <sup>2</sup>	160	220	240	270	300	330	350	380	400
Sheets	•	•	•	•	•	•	•	•	•
Reels	•	•	•	•	•	•	•	•	•

Non-standard grammages available on request.

Your choice for superior top side and enhanced reverse side printability delivering premium value perception with a soft silky touch. Algro Design Card offers you the ideal solution without having to compromise between pack protection and print performance. It delivers sharper pictures, more contrast and high resolution imaging with a feeling of greater space and dimensionality.

## Features

- top side double coated, reverse side single coated
- high brightness
- high UV light fastness
- superior colour reproduction
- suitable for offset, screen and flexo printing
- excellent shaping, print and converting properties
- taint and odour neutral
- suitable for direct contact with foodstuff

## Your benefits

- brilliant colour reproduction
- outstanding contrast
- increased colour gamut
- improved readability
- increased shelf impact
- unique brand differentiation
- intensified brand focus:
  - maximum precision and performance in demanding applications
  - high value perception
  - immaculate results
  - innovative brand transformation

## Grammages

	235	255	285	315	345
Sheets 	•	•	•	•	•
Reels 	•	•	•	•	•

Non-standard grammages available on request.

Developed to meet the highest demands, Algro Design Duo offers infinite options for premium packaging and creative graphic projects. An incredibly versatile range of symmetrically double coated high white cartonboard with identical front and reverse side when print perfection is essential. This superior, flexible paperboard guarantees maximum quality for all converting and finishing processes. Thanks to superb printing and conversion properties, Algro Design Duo gives you the competitive edge to outclass and differentiate from competition.

## Features

- top and reverse side symmetrically double coated
- high brightness
- high UV light fastness
- superior colour reproduction
- suitable for offset, screen and flexo printing
- taint and odour neutral
- excellent shaping, print and converting properties
- suitable for direct contact with foodstuff

## Your benefits

- brilliant colour reproduction
- outstanding contrast
- increased colour gamut
- improved readability
- increased shelf impact
- unique brand differentiation
- intensified brand focus:
  - maximum precision and performance in demanding applications
  - high value perception
  - immaculate results
  - innovative brand transformation

## Grammages

g/m <sup>2</sup>	250	270	300	330	360	380	450*	500*
Sheets		●	●	●	●	●	●	●
Reels		●	●	●	●	●	●	●

Non-standard grammages available on request. \*Non-standard grammages

Your complete solution for packaging and graphic applications. Recognized for ultimate brightness and remarkable silky touch.

## Features

- top side double coated, reverse side light coated
- ultimate brightness, high gloss and unrivaled bulk
- suitable for offset, screen and flexo printing
- excellent shaping, print, finishing and converting properties
- suitable for direct contact with foodstuff
- migration of certain elements tested according to toy safety EN 71 part 3

## Your benefits

- brilliant colour reproduction and outstanding contrast
- increased colour gamut
- improved readability
- a silk touch and feel
- increased shelf impact
- unique brand differentiation
- intensified brand focus:
  - maximum precision and performance in demanding applications
  - high value perception
  - immaculate results
  - innovative brand transformation

## Grammages

g/m <sup>2</sup>	220	240	260	280	300	325	350
Sheets	•	•	•	•	•	•	•
Reels	•	•	•	•	•	•	•

Non-standard grammages available on request.

High impact at a lighter weight. A paperboard designed to deliver superior quality, Spectro converts to eye-catching packaging that stands out amongst the crowd. It's a single-ply SBS with enhanced optics, making it ideal for premium applications that call for dynamic and vibrant images. The paperboard that provides a high-end experience at a lower basis weight – it's the perfect combination to make a lasting impression. That's the new standard.

## Features

- premium C1S surface and printability
- unmatched yield advantage
- strict tolerance standards
- enhanced optics for lasting impact
- a breadth of applications

## Your benefits

- brilliant colour reproduction
- vibrant blue-white shade with fade resistance
- smooth, uniform surface
- minimal variability across production runs
- substantial feel at a lighter weight
- unrivaled versatility
  - direct mail
  - luxury packaging
  - point of sale material

## Grammages

g/m <sup>2</sup>	177	195	230	257	288	314	336	396
Sheets 	•	•	•	•	•	•	•	•
Reels 	•	•	•	•	•	•	•	•

High impact at a lighter weight. A paperboard designed to deliver superior quality, Spectro converts to eye-catching packaging that stands out amongst the crowd. It's a single-ply SBS with enhanced optics, making it ideal for premium applications that call for dynamic and vibrant images. The paperboard that provides a high-end experience at a lower basis weight – it's the perfect combination to make a lasting impression. That's the new standard.

## Features

- premium C2S surface and printability
- unmatched yield advantage
- ultimate side-to-side consistency
- enhanced optics for lasting impact
- a breadth of applications

## Your benefits

- brilliant colour reproduction
- vibrant blue-white shade with fade resistance
- smooth, uniform surface
- most consistent side-to-side printing surface
- minimal variability across production runs
- substantial feel at a lighter weight
- unrivaled versatility
  - direct mail
  - luxury packaging
  - point of sale material

## Grammages

	189	228	264	296	321	347	379	451
Sheets	•	•	•	•	•	•	•	•
Reels	•	•	•	•	•	•	•	•

Substantial feel at a lighter weight. Proto C1S is a sturdy, single-ply SBS capable of meeting a breadth of applications. It's the expert paperboard for everyday jobs, providing the quality you deserve with superior convertibility and a consistent surface. And with Proto there is no need to waste time making adjustments to equipment already calibrated to SBS. It's everything you want – and more. That's the new standard.

## Features

- unmatched yield advantage
- consistent performance downstream
- strict tolerance standards
- enhanced optics for lasting impact
- superior surface and printability

## Your benefits

- substantial feel at a lighter weight
- strength and durability
- exceptional dimensional stability
- vibrant blue-white shade with fade resistance
- smooth, uniform surface
- minimal variability across production runs

## Grammages

g/m <sup>2</sup>	177	195	230	257	272	288	314	335	368	396
Sheets	•	•	•	•	•	•	•	•	•	•
Reels	•	•	•	•	•	•	•	•	•	•

Substantial feel at a lighter weight. Proto Litho brings all the best-in-class benefits of Proto – including an advantaged surface, a substantial feel, and sturdiness under pressure – to meet your corrugated litho lamination packaging needs. A paperboard that is lightweight and dependable, Proto Litho helps products make a statement, without sacrificing strength and adhesion for maximum converting efficiency. Consistent ROI – that's the new standard.

## Features

- unmatched yield advantage
- consistent performance downstream
- strict tolerance standards
- enhanced optics for lasting impact
- superior surface and printability

## Your benefits

- substantial feel at a lighter weight
- strength and durability
- exceptional dimensional stability
- vibrant blue-white shade with fade resistance
- smooth, uniform surface
- minimal variability across production runs

## Grammages

	g/m <sup>2</sup>	177	195	230
Sheets		•	•	•
Reels		•	•	•

# sappi | LusterFSB

Versatility at a lighter weight. LusterFSB is the paperboard that offers top-notch performance when efficiency and affordability are at the top of your list. Specializing in meeting multiple food packaging needs and adapting to a variety of converting equipment, LusterFSB is the paperboard that gets the job done while making your job easier. That's the new standard.

## Features

- unmatched yield advantage
- consistent performance downstream
- superior surface and printability
- breadth and versatility of applications

## Your benefits

- substantial products at a lighter weight
- strength and rigidity
- uniform surface
- variety of printing and converting applications
- poly-coated options to address barrier needs

## Grammages

g/m <sup>2</sup>	230	257	272	288	314	335	368	396
Sheets 	•	•	•	•	•	•	•	•
Reels 	•	•	•	•	•	•	•	•



# Silicone Base Papers

Where advantage is self-adhesive.



SILICONE BASE  
PAPERS

# Silicone Base Papers

## For pressure sensitive adhesive applications

### CCK (Clay Coated Kraft) Paper

- Sol DNC
- Sol DN / Sol DNN
- Sol 81 NC
- Sol PCC
- Sol SNC
- Sol HD

### Glassine Papers

- Silco Label
- Silco Tape
- Silco Process BS
- Silco Process BS NC



# Silicone Base Papers

## CCK and glassine papers



Brand	Characteristics	Print Process/ Colors	Silicone System	Applications	g/m <sup>2</sup>
CCK Papers	Sol DNC	one side double clay coated Kraft glossy paper with reverse side functional coating, front side calendered	flexo (printed on the reverse side)	solvent free (thermal, EBC, UV), solvent based, water based	graphic arts, e.g. carrier paper for self adhesive films and plotter films composites, e.g. carrier paper for prepreg
	Sol DN Sol DNN	one side double clay coated Kraft paper with reverse side functional coating	flexo (printed on the reverse side)	solvent free (thermal, EBC, UV), solvent based, water based	graphic arts, e.g. carrier paper for self adhesive films and plotter films composites, e.g. carrier paper for prepreg
	Sol 81 NC	one side clay coated Kraft paper	flexo (printed on the reverse side)	solvent free (thermal, EBC, UV), solvent based, water based	mainly office material, e.g. carrier paper for self adhesive labels, stickers, copy paper, etc.
	Sol PCC	one side clay coated Kraft paper used as carrier for self adhesive labels and stickers	flexo (printed on the reverse side)	solvent free (thermal, EBC, UV), solvent based, water based	graphic arts, e.g. carrier paper for clear protection films
	Sol SNC	one side clay coated Kraft paper	flexo (printed on the reverse side)	solvent free (thermal, EBC, UV), solvent based, water based	graphics arts (hybrid applications), e.g. carrier paper for plotter films office material, e.g. carrier paper for self adhesive material adhesive tapes, e.g. carrier paper for different tapes
	Sol HD	one side double clay coated Kraft paper	flexo (printed on the reverse side)	solvent free (thermal, EBC, UV), solvent based, water based	graphic arts, e.g. carrier paper for self adhesive films (offset print)
Glassine Papers	Silco Label	supercalendered glassine paper	white, yellow, blue	solvent free (thermal, EBC, UV) and solvent based	Carrier paper for self adhesive labels
	Silco Tape	supercalendered glassine paper	white, yellow, avana/amber	solvent free (thermal, EBC, UV), solvent based, water based	Carrier paper for adhesive tapes
	Silco Process	supercalendered and uncalendered glassine paper	natural	solvent free (thermal, EBC, UV) and solvent based	Carrier paper for process liner (incl. prepreg applications)

graphic arts: self adhesive films and material	graphic arts (hybrid applications); e.g. plotter films	graphic arts (clear protection films)	composites: e.g. Prepreg	self adhesive office material	adhesive tapes	adhesive label	process liner
•	•	•	•				
•	•		•				
•			•				
•				•			
•					•		
•						•	
•							•

### Sappi Sol:

- These paper grades are recyclable and available as FSC® and PEFC™ certified on request.
- The producing mill is ISO 9001, ISO 14001, ISO 50001, OHSAS 18001, FSC® and PEFC™ Chain of Custody certified and EMAS (Eco Management and Audit Scheme) registered.
- The producing mill is DIN EN 15593 and ISO 22000 certified, Management of hygiene in the production of packaging for foodstuffs.
- Samples can be ordered via email: [speciality.paper@sappi.com](mailto:speciality.paper@sappi.com)

### Sappi Silco:

- These paper grades are recyclable and available as FSC® and PEFC™ certified on request.
- The producing mill is ISO 9001, ISO 14001, ISO 50001, OHSAS 18001, FSC® and PEFC™ Chain of Custody certified and EMAS (Eco Management and Audit Scheme) registered.
- The producing mill is DIN EN 15593 certified; suitable for direct contact with foodstuff.
- Samples can be ordered via email: [speciality.paper@sappi.com](mailto:speciality.paper@sappi.com)



A one side double clay coated Kraft glossy paper for siliconisation with reverse side functional coating.

## Applications

Graphic arts, e.g. carrier paper for self adhesive films and plotter films.  
Labels, e.g. carrier paper for adhesive label applications.

## Features

- front side calendered
- flexo print on reverse side
- high volume
- high dimensional stability
- high brightness
- uniform re-moistering of the reverse side

## Your benefits

- very low silicone consumption
- smooth and cost efficient operation
- highest consistency for all silicone systems
- premium visual impact

## Grammages

---

g/m<sup>2</sup> 135

---

Reels  •

Non-standard grammages available on request.



A one side double clay coated Kraft paper for siliconisation with reverse side functional coating.

## Applications

Graphic arts, e.g. carrier paper for self adhesive films and plotter films.  
Composites, e.g. carrier paper for prepreg.

## Features

- excellent silicone curing properties
- high dimensional stability
- flexo print on reverse side
- excellent flatness after lamination and sheeting
- available in different shades
- high internal bond strengths
- high whiteness (DN) and yellow shade (DNN)
- uniform re-moistering of the reverse side

## Your benefits

- smooth and cost efficient operation
- cost efficient printing
- low silicone consumption
- highest consistency for all silicone systems
- low shrinkage on digital printers
- premium visual impact

## Grammages

		90	120	125	135
Reels	DN	•	•	•	
	DNN		•	•	•

Non-standard grammages available on request.



A white, one side clay coated Kraft paper with specific application as a carrier for self adhesive labels and stickers.

## Applications

Mainly office material, e.g. carrier paper for self adhesive labels, stickers, copy paper, etc.

## Features

- high stiffness
- high bulk
- non abrasive surface
- uniform caliper for die-cutting

## Your benefits

- good lay flat properties
- low absorbency of silicone
- suitable for all coating systems

## Grammages

g/m <sup>2</sup>	80	85	90	98
Reels 	•	•	•	•

Non-standard grammages available on request.



A one side clay coated Kraft paper with excellent smoothness level.

## Applications

Graphic arts, e.g. carrier paper for clear protection films.

## Features

- calendered surface
- excellent silicone curing properties
- good dimensional stability

## Your benefits

- very smooth clay surface
- low silicone consumption
- excellent look of clear protection films
- highest consistency for all silicone systems

## Grammages

---

g/m <sup>2</sup>	90
Reels	•

---

Non-standard grammages available on request.



A one side double clay coated Kraft paper for siliconisation.

## Applications

Graphic arts, e.g. carrier paper for self adhesive films (offset print).

## Features

- o outstanding flatness after lamination and sheeting
- o excellent dimensional stability
- o high volume
- o flexo print on reverse side
- o uniform re-moistering of the reverse side

## Your benefits

- o smooth and cost efficient operation
- o cost efficient printing
- o low silicone consumption
- o highest consistency for all silicone systems
- o premium visual impact

## Grammages

g/m <sup>2</sup>	120	135
Reels	•	•

Non-standard grammages available on request.



Supercalendered glassine paper for siliconisation, available in three different colors.

## Applications

Designed as carrier for paper for self adhesive labels.

## Features

- glassine papers for siliconisation
- supercalendered
- high transparency
- high smoothness
- suitable for solvent and solvent free silicone systems
- different colors: white, yellow and blue

## Your benefits

- low silicone consumption
- smooth and cost efficient operation
- excellent converting properties

## Grammages

		50	59	60	62	65	78
Reels 	White	•		•	•	•	•
	Yellow		•	•	•		
	Blue	•			•	•	

Non-standard grammages available on request.



Supercalendered glassine paper for siliconisation on both sides, available in multiple different colors.

## Applications

Designed as carrier for paper for adhesive tapes.

## Features

- glassine papers for siliconisation on both sides
- good smoothness on both sides
- suitable for solvent and solvent free silicone systems
- different colors: white, havana brown, yellow, blue, green, blue-green and nature

## Your benefits

- low silicone consumption
- smooth and cost efficient operation
- excellent converting properties
- wide range

## Grammages

	g/m <sup>2</sup>	62	64	65	72	78	80	88	92	95	100	120	130	140	160
	White			•	•	•	•	•	•	•	•	•	•	•	•
	Havana brown		•			•		•	•						
	Yellow			•			•	•							
Reels	Blue				•		•		•	•					
	Green								•						
	Blue-green									•					
	Nature					•		•		•		•		•	•

Non-standard grammages available on request.



Supercalendered glassine paper for siliconisation.

## Applications

Designed as carrier for paper for process liners.

## Features

- glassine papers for siliconisation on both sides
- highly calendered
- good transparency
- good smoothness on both sides
- suitable for solvent and solvent free silicone systems
- Color: nature

## Your benefits

- low silicone consumption
- smooth and cost efficient operation
- excellent converting properties

## Grammages

g/m <sup>2</sup>	68	78	88	120	140	160
Reels 	•	•	•	•	•	•

Non-standard grammages available on request.



Uncalendered glassine paper for siliconisation.

## Applications

Designed as carrier for paper for process liners.

## Features

- glassine papers for siliconisation on both sides
- uncalendered
- suitable for solvent and solvent free silicone systems
- Color: nature

## Your benefits

- smooth and cost efficient operation
- excellent converting properties

## Grammages

g/m <sup>2</sup>	68	78	88	120	140	160
Reels 	•	•	•	•	•	•

Non-standard grammages available on request.





# Dye Sublimation Papers

Precision products for  
dye sublimation printing



# Dye Sublimation Papers

- Transjet® Eco II
- Transjet® Boost
- Transjet® Fashion
- Transjet® Industrial
- Transjet® Sportsline
- Transjet® Sportsline Hi-Tack



A coated sublimation paper for digital transfer printing with water-based dye sub inks.

## Applications

Designed for the transfer onto various polyester materials, such as banners, flags, snowboards, gadgets (mugs, mouse pads, etc.), apparel, home textiles.

## Features

- suitable for digital printing on non-industrial printers
- appropriate for water-based dye sub inks

## Your benefits

- high quality and excellent performance
- high transfer rate
- good drying time
- excellent colour brilliance on polyester textiles and polyester-coated substrates
- a well recognized brand on the market

## Grammages

g/m <sup>2</sup>	68	95
Reels	•	•



A coated sublimation paper for digital transfer printing with water-based dye sub inks, especially suited for high speed printing.

## Applications

Designed for the transfer onto various polyester materials, such as sportswear, banner, flags, skis and snowboards, soft signage and fashion.

## Features

- suitable for digital printing on industrial and non-industrial printers
- appropriate for water-based dye sub inks

## Your benefits

- high quality and excellent performance
- ultimate ink absorption and drying
- excellent runnability and outstanding efficiency
- enhanced colour release and densities
- a well recognized brand on the market

## Grammages

g/m <sup>2</sup>	70	85	130
Reels	•	•	•

A coated sublimation paper for digital transfer printing with water-based dye sub inks.

## Applications

Designed for the transfer onto all possible polyester materials, such as fashion apparel

## Features

- suitable for digital printing especially on industrial printers
- appropriate for water-based dye sub inks

## Your benefits

- high quality and excellent performance
- ultra-light grammage
- fast ink-drying
- excellent colour release
- good paper stiffness
- ideal for use in cost- and productivity-driven production processes on industrial scale as e.g. in fashion wear
- a well recognized brand on the market

## Grammages

---

g/m <sup>2</sup>	45
Reels	•

---



A coated sublimation paper for high speed digital transfer printing with water-based dye sub inks, especially designed for industrial printers.

## Applications

Designed for the transfer onto various polyester materials, such as textiles, banner, flags, hard substrates, etc.

## Features

- suitable for digital printing on industrial and non-industrial printers
- appropriate for water-based dye sub inks

## Your benefits

- high quality and excellent performance
- fast ink absorption and drying
- excellent runnability on high-speed machines
- enhanced colour release and densities
- a well recognized brand on the market

## Grammages

g/m <sup>2</sup>	60	100
Reels	•	•

A coated sublimation paper for digital transfer printing with water-based dye sub inks with a thermal adhesive coating.

## Applications

Designed for the transfer onto various polyester materials, such as sport and functional textiles, personalized interior, skis and snowboards, etc.

## Features

- suitable for digital printing on non-industrial printers
- appropriate for water-based dye sub inks

## Your benefits

- high quality and excellent performance
- high transfer rate
- good drying time
- no ghosting with elastic textile as there is no movement between paper and fabric during transfer
- reversible tack between sublimation paper and fabric after transfer
- a well recognized brand on the market

## Grammages

---

g/m <sup>2</sup>	100
Reels	•

---



**sappi** | **Transjet**  
**Sportsline Hi-Tack**

A coated sublimation paper for digital transfer printing with water-based dye sub inks with a strong adhesive coating.

## Applications

Designed for the transfer onto various polyester materials, such as sport and functional textiles.

## Features

- suitable for digital printing on non-industrial printers
- appropriate for water-based dye sub inks
- enhanced tack-effect to work with a wide range of polyester textiles (the level of tack depends on the fabric in use and prior testing is required)

## Your benefits

- high quality and excellent performance
- maximum reduction of textile shrinkage
- high transfer rate
- good drying time
- no ghosting with elastic textile as there is no movement between paper and fabric during transfer
- enhanced reversible tack between sublimation paper and fabric after transfer
- a well recognized brand on the market

## Grammages

---

g/m <sup>2</sup>	100
Reels	•

---





# Inkjet Papers

High-quality coated inkjet  
paper for large formats



# Inkjet Papers

## Imaging Papers

- Swiss Matt
- Scrolljet

## CAD / Engineering Papers

- DT-Plot



# sappi | Swiss Matt

A high quality coated matt inkjet paper for indoor imaging.

## Applications

Designed for large format inkjet printing, such as graphic presentations, trade fair graphics, POS signage and poster prints.

## Features

- enhanced surface smoothnesse
- suitable for hot and cold lamination
- high whiteness and blueish shade
- high colour density and good line sharpness
- quick drying of dye and pigmented inks with excellent wet-smear resistance
- immediate encapsulation of pigmented black (no abrasion)

## Your benefits

- high consistent quality paper
- excellent printing results and optical appearance (brightness and nuances)
- very good runnability

## Grammages

g/m <sup>2</sup>	90	100	120	140	180
Reels 	•	•	•	•	•



A multilayer-coated inkjet paper for outdoor imaging.

## Applications

Designed as a pure paper solution for applications such as mega-light-systems scrollers, photorealistic posters and prints.

## Features

- outstanding dimensional stability
- extremely tear resistant and durable ; tested over 100'000 rotations
- very good weather and moisture resistance
- additional processing steps such as lamination are superfluous
- 3 in 1 printing solution: suitable for latex-inks, UV-curable and hard-solvent
- identical colour appearance during day or night time (front and back-lit operation)
- homogeneous paper formation, especially favourable for back-lit applications

## Your benefits

- environmentally friendly solution
- high consistent quality paper
- excellent quality even in harsh environmental conditions
- outstanding printing results and optical appearance (day and night)
- very good runnability
- no lamination required at mega scroller applications
- high acceptance in the market

## Grammages

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g/m <sup>2</sup>	175
Reels	•

---



A one side high quality coated matt inkjet paper with reverse side treatment.

## Applications

Designed for large format inkjet printing in monochrome and colour, such as CAD/GIS/GEO drawings, presentations, maps, POS signage, trade fair graphics, etc.

## Features

- high whiteness with natural shade
- high colour density and good line sharpness
- quick drying of dye and pigmented inks
- good black rub-off and smear resistance

## Your benefits

- high quality
- excellent printing results (colour reproduction and line sharpness)
- very good runnability

## Grammages

	g/m <sup>2</sup>	90	100	140	180
Reels	•	•	•	•	



# Paper. People. Possibilities.

Sappi Packaging and Speciality Papers



## You will benefit from:

- In-depth experience and know-how
- Ingenious minds
- Long-term commitment to the market of speciality papers
- Most valuable brand experience

- High capacity and easy availability
- Leading and consistent premium quality
- Wide and versatile product portfolio
- Excellent paper and board properties
- Innovative and sustainable solutions

- Global presence and network
- Financial stability and the will to invest
- First-class individual customer service
- Reliable and fair partner



**sappi**



# sappi

A leading global provider of sustainable woodfibre products and solutions, such as packaging and speciality papers, coated and uncoated fine paper, dissolving wood pulp and biomaterials.

## Key facts:

- Over 12,500 employees worldwide
- 5.6 million tons paper per annum
- 2.3 million tons paper pulp per annum
- 1.3 million tons specialised cellulose per annum
- 492,000 hectares owned, leased and sustainably managed plantations in South Africa
- Manufacturing in 16 mills on three continents
- Global business in over 150 countries close to our customers
- Turnover US\$ 5.296 billion in 2017



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For more specific information regarding food contact suitability and toy safety of a certain paper grade, please request its respective Harmlessness Declaration.

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