



Leading supplier of  
sustainable papers for  
packaging solutions



The Power of Less®

# Our forward-thinking approach to paper

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As towns, cities and entire populations evolve, and digital technology continues to revolutionise the way we shop and go about our lives, our needs and expectations have changed.

We demand more from the products we buy and expect them delivered faster to our doors. All whilst reducing our impact on the environment at the same time.

There is a need for a new approach to packaging and strong leadership in our industry.



# Our Purpose

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## Redefining Packaging for a Changing World

Papermaking isn't just something we do. It's at the heart of our entire business model and is central to delivering on our Purpose.

We believe our vision for the packaging industry can play a powerful role in meeting some of the world's complex consumer and sustainability challenges. By innovating and thinking differently we are developing the bespoke strategies and paper products our customers want and the environment needs.



### Thinking differently

We take a flexible approach to our papermaking operations. While producing around five million tonnes of finished paper products every year, we are finding innovative ways to help our customers achieve more for less – sell more, reduce costs, manage risk and complexity in their supply chain.



### Innovating together

Working with our customers to understand their needs, and with our suppliers to ensure we receive the highest quality of paper for recycling, we innovate to maximise the performance and strength of our packaging papers.



### Putting sustainability at our heart

Whether it's ensuring that 100% of the fibre we use comes from recycled or chain of custody certified papers, reducing our carbon footprint, or mitigating our mills' water impact, sustainability is at the heart of our paper production processes.



### Developing the right strategies

We focus on supplying our customers with the high-quality finished papers they need for their manufacturing processes. That's why we developed ways of working that ensure our sustainably sourced fibres become the papers needed for high-performance packaging solutions.

# Your partner in containerboard and speciality papers

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We are a leading manufacturer of sustainable corrugated case materials, speciality papers and high-performance papers for packaging production. All of our finished paper products are 100% recyclable and sustainably sourced.

Our products range from recycled to kraft, including brown liners, white liners, fluting, dual-use, coated grades and speciality papers.

Through our products, experience and knowledge, we are committed to ensuring consistent quality and service to our customers.

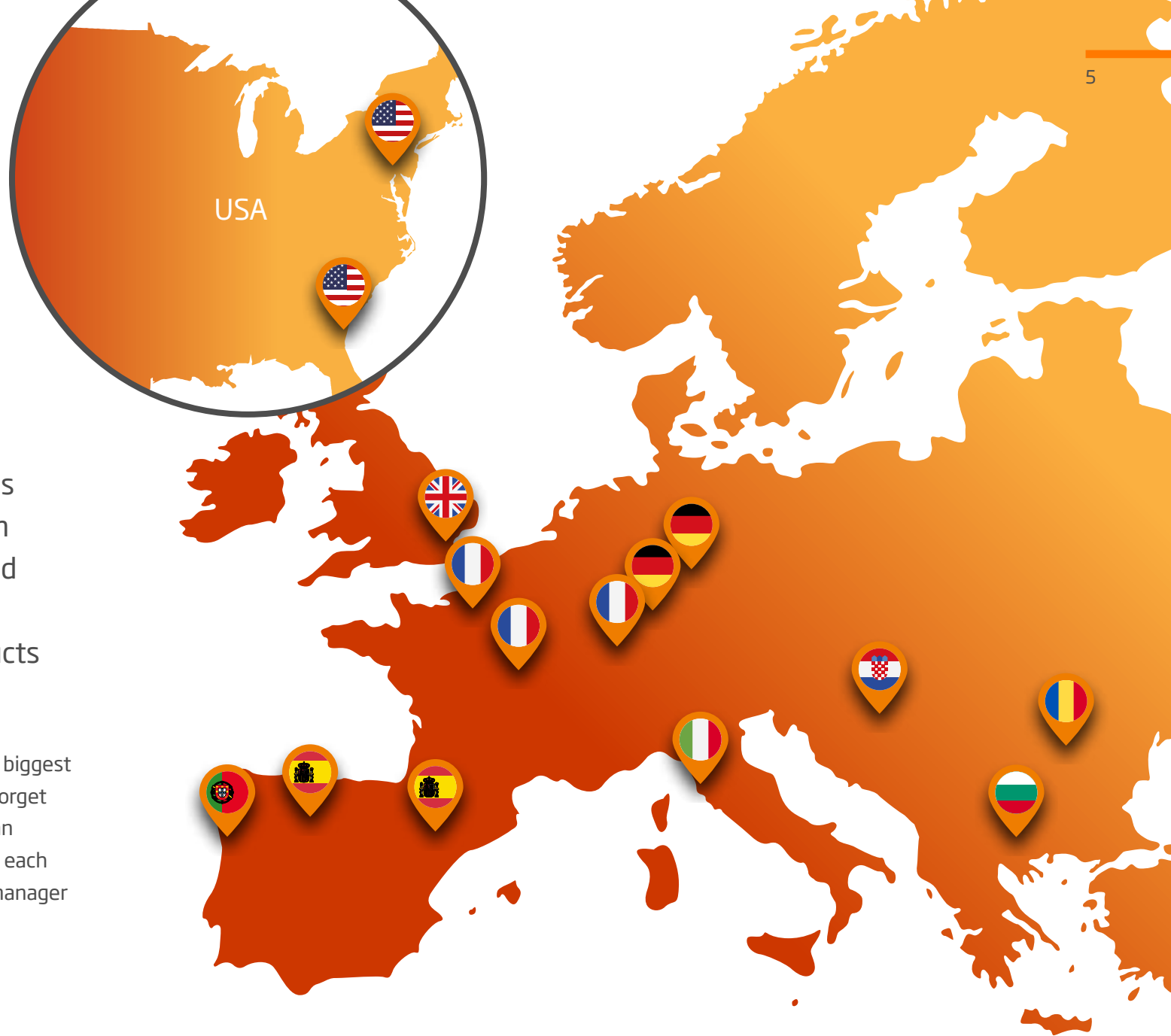


# The size and scale to manage all your needs

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Our paper supply network stretches across 13 European mills and two in North America and produces around 5 million tonnes of containerboard and specialist finished paper products each year.

Although we're proud to have become one of the biggest papermaking operations in the world, we never forget the importance of personal service. So, we take an individual approach to account management and each of our regions employs a dedicated commercial manager who will personally deal with your enquiries.



# Paper that's good for your sustainability goals

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Today's customers, employees, investors and shareholders all expect you to adopt a more sustainable approach. When you purchase our products, you can be certain they come from sustainably sourced or chain of custody certified sources.

Sustainability is at the heart of our papermaking and we work in partnership with you to select the right finished papers for packaging solutions that your business demands - whilst improving your environmental credentials at the same time.

Our Now and Next Sustainability Strategy focuses on closing the loop through better design, protecting natural resources by making the most of every fibre, reducing waste and pollution through circular solutions and equipping people to lead the transition to a circular economy.



# Leading the way in quality

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We are proud to be recognised for the high quality of our finished product.

Our focus on quality runs throughout all the key stages of the papermaking process, from raw materials to the finished product, providing our customers with the quality assurance they need.

Although most of our mills have an automated paper testing laboratory, all our mills are required to send regular samples into an independent, certified Paper Quality Centre based in Witzenhausen, Germany.

Our paper mills get regularly audited by independent assessors, who inspect all aspects of our management systems and papermaking.





# Inventing, re-imagining and redefining to deliver the Circular Economy

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From the way we make our paper to how we transport it to your doorstep, we have a track record of innovation and leadership in our industry.

We are already delivering new, smarter ways of working that improve our quality, service and sustainability credentials. We are increasing capacity and capabilities in our paper mills to not only produce more volume but lighter weight papers to respond to changing retail and e-commerce packaging requirements. Through all of our processes our designers and innovators are relentlessly pursuing every new opportunity to create circular solutions designed to eliminate waste and pollution, circulate products and materials, and regenerate nature.

- At our Kemlsey Mill, we have invested in a state-of-the-art laboratory to enhance the performance and sustainability qualities of our paper, including coatings, wet-end chemistries, surface chemistries, repulpability, and recyclability.
- By thinking differently about our Supply Chain Services, we are developing the right strategies to cut lead times, improve quality, assure supply and make us a more reliable supplier. All while reducing the impact of transport on our environment.
- We're already utilising digital technology in our mills to help us reduce power consumption, reduce contamination in raw materials, reduce fibre consumption, increase quality and more.



# Technical Customer Services

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We set the bar high in all aspects of our service.

Our Technical Customer Service team is on hand to work with you in support of your requirements. Through our support, technical know-how and deep understanding of our paper performance, we are improving productivity, reducing costs and ensuring that you meet your commercial and sustainability challenges.



# Our containerboard products

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We offer you one of the widest choices of containerboard products available. All designed and manufactured to meet today's sustainability challenges and provide the ideal material to satisfy your and your customers' needs.

On the following pages you will find details of our range, including grades and availability.



# Product Range

Family Grade	Grade	Page
Brown Liners	Liner 1	14-16
	Liner 2	17
	Liner 3	18-19
Kraft Liners	Brown Kraft Liner	21
	Brown Kraft Top Liner	22
White Liners	White Liner A	24-25
	White Liner B	26-27
	White Liner C	28-29
Coated Papers	Top Double Coated	31
	Double Coated	32
	Double Coated Economic	33
Medium/Fluting Grades	Medium Plus	35
	Medium HP Plus	36-37
	Medium HP WS	38-39
Dual-Use Grades	Dual-Use	41-42
	Dual-Use HP Plus	43

# Key to Applications

-  Heavy Duty Products
-  Chilled and Frozen Goods
-  Hazardous Products
-  Agricultural Industry
-  FMCG Industry
-  Cleaning and Hygiene Industry
-  Food and Beverage Industry
-  Printing
-  E-Commerce
-  Long Storage
-  Export / Transport
-  Versatile in Use

# Brown Liners

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Made from 100% recycled fibre, our brown liners have exceptional attributes such as high mechanical properties, high printability performance, good runnability on the corrugator and optimum levels of colour stability.

## Grades available

- Liner 1
- Liner 2
- Liner 3



# Liner 1

Liner 1 is produced in Lucca, Zărnești, Alcolea and Dueñas mills. We can offer you three slightly different variations of Liner 1.

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- Offers a great balance between cost and strength properties
- Excellent runnability, resistance and homogenous appearance
- Designed for challenging mechanical and environmental applications

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

10/12

Alternative grammages, not listed, may be available - please contact our sales team for more information.

## Liner 1 produced in Lucca and Zărnești

### Typical values

Property	Unit	Method					
Grammage	g/m <sup>2</sup>	ISO 536	120	135	145	170	200
Burst strength	kPa	ISO 2758	360	410	425	510	580
SCT CD	kN/m	ISO 9895	2.35	2.65	2.85	3.30	3.85

### Guaranteed values

Property	Unit	Method	200				
Grammage	g/m <sup>2</sup>	ISO 536	120	135	145	170	200
Grammage average, min/max	%	ISO 536	±3	±3	±3	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1
Burst strength, min	kPa	ISO 2758	325	370	395	465	530
SCT CD, min	kN/m	ISO 9895	2.15	2.40	2.60	3.00	3.50
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	45	45	45	45	45
Cobb 1800s, max (if applicable)	g/m <sup>2</sup>	ISO 535	-	-	-	110	110



Please note that availability of products and delivery options depend on your location. Please get in touch with our sales team for more information via [paper@dssmith.com](mailto:paper@dssmith.com).

# Liner 1

Liner 1 is produced in Lucca, Zărnești, Alcolea and Dueñas mills. We can offer you three slightly different variations of Liner 1.

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- Offers a great balance between cost and strength properties
- Excellent runnability, resistance and homogenous appearance
- Designed for challenging mechanical and environmental applications

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

12

Alternative grammages, not listed, may be available - please contact our sales team for more information.

## Liner 1 produced in Alcolea

### Typical values

Property	Unit	Method	170	180	200	220	250	275
Grammage	g/m <sup>2</sup>	ISO 536	170	180	200	220	250	275
Burst strength	kPa	ISO 2758	510	540	600	660	750	825
SCT CD	kN/m	ISO 9895	3.75	3.95	4.40	4.80	5.50	6.05

### Guaranteed values

Property	Unit	Method	170	180	200	220	250	275
Grammage	g/m <sup>2</sup>	ISO 536	170	180	200	220	250	275
Grammage average, min/max	%	ISO 536	±4	±4	±4	±4	±4	±4
Moisture average	%	Online	8.5±1.5	8.5±1.5	8.5±1.5	8.5±1.5	8.5±1.5	8.5±1.5
Burst strength, min	kPa	ISO 2758	440	470	520	570	650	715
SCT CD, min	kN/m	ISO 9895	3.30	3.50	3.90	4.30	4.90	5.36
Cobb 1800s, max	g/m <sup>2</sup>	ISO 535	150	150	150	150	150	150



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# Liner 1 High Performance

Liner 1 is produced in Lucca, Zărnești, Alcolea and Dueñas mills. We can offer you three slightly different variations of Liner 1.

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- Offers a great balance between cost and strength properties
- Excellent runnability, resistance and homogenous appearance
- Designed for challenging mechanical and environmental applications

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

## Liner 1 HP produced in Dueñas

Typical values

Property	Unit	Method							
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>135</b>	<b>150</b>	<b>165</b>	<b>195</b>
Burst strength	kPa	ISO 2758	368	384	410	432	480	528	585
SCT CD	kN/m	ISO 9895	2.50	2.65	2.80	3.00	3.30	3.60	4.30

Guaranteed values

Property	Unit	Method							
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>115</b>	<b>120</b>	<b>125</b>	<b>135</b>	<b>150</b>	<b>165</b>	<b>195</b>
Grammage average, min/max	%	ISO 536	±4	±4	±4	±4	±4	±4	±4
Moisture average	%	Online	8.5±1.5	8.5±1.5	8.5±1.5	8.5±1.5	8.5±1.5	8.5±1.5	8.5±1.5
Burst strength, min	kPa	ISO 2758	322	335	350	378	420	462	507
SCT CD, min	kN/m	ISO 9895	2.25	2.30	2.40	2.60	2.90	3.20	3.80
Cobb 1800s, max (if applicable)	g/m <sup>2</sup>	ISO 535	150	150	150	150	150	150	-



Please note that availability of products and delivery options depend on your location. Please get in touch with our sales team for more information via [paper@dssmith.com](mailto:paper@dssmith.com).



# Liner 2

Liner 2 is produced in Aschaffenburg, Belišće, Trakia, Witzenhausen and Žárnešti mills.

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- Offers a great balance between cost and strength properties
- Excellent runnability

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

20

Alternative grammages, not listed, may be available - please contact our sales team for more information.

## Liner 2 produced in Aschaffenburg, Belišće, Trakia, Witzenhausen and Žárnešti

### Typical values

Property	Unit	Method			
Grammage	g/m <sup>2</sup>	ISO 536	115	125	140
Burst strength	kPa	ISO 2758	270	290	330
SCT CD	kN/m	ISO 9895	2.15	2.35	2.60

### Guaranteed values

Property	Unit	Method	Highly sized		
Grammage	g/m <sup>2</sup>	ISO 536	115	125	140
Grammage average, min/max	%	ISO 536	±3	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1	8.0 ±1
Burst strength, min	kPa	ISO 2758	240	260	300
SCT CD, min	kN/m	ISO 9895	1.95	2.15	2.40
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	45	45	45



Please note that availability of products and delivery options depend on your location. Please get in touch with our sales team for more information via [paper@dssmith.com](mailto:paper@dssmith.com).

# Liner 3

Liner 3 is produced in Aschaffenburg, Belišće, Kemsley, Lucca, Rouen, Trakia, Witzenhausen, Zărnești and Dueñas. We can offer you two slightly different variations of Liner 3.

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- A very consistent appearance and stable properties ensuring corrugated board strength
- Excellent runnability on the corrugator with high production efficiency

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

30/32

Alternative grammages, not listed, may be available - please contact our sales team for more information.

## Liner 3 produced in Aschaffenburg, Belišće, Kemsley, Lucca, Rouen, Trakia, Witzenhausen and Zărnești

Typical values

Light Liner

Property	Unit	Method	Light Liner										
Grammage	g/m <sup>2</sup>	ISO 536	90	100	110	115	120	130	150	160	165	190	210
Burst strength	kPa	ISO 2758	200	220	250	270	285	310	350	365	375	420	460
SCT CD	kN/m	ISO 9895	1.55	1.70	1.90	2.00	2.10	2.25	2.50	2.65	2.75	3.10	3.50

Guaranteed values

Property	Unit	Method	Light Liner										
Grammage	g/m <sup>2</sup>	ISO 536	90	100	110	115	120	130	150	160	165	190	210
Grammage average, min/max	%	ISO 536	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3	±3
Moisture average*	%	Online	8.0±1	8.0±1	8.0±1	8.0±1	8.0±1	8.0±1	8.0±1	8.0±1	8.0±1	8.0±1	8.0±1
Burst strength, min	kPa	ISO 2758	180	200	220	230	240	260	300	320	330	370	425
SCT CD, min	kN/m	ISO 9895	1.40	1.55	1.70	1.75	1.85	2.00	2.30	2.45	2.55	2.85	3.25
Cobb 60s, max**	g/m <sup>2</sup>	ISO 535	45	45	45	45	45	45	45	45	45	45	45
Cobb 1800s, max (if applicable)	g/m <sup>2</sup>	ISO 535	-	-	110	-	110	110	-	-	110	-	-

Please note that availability of products and delivery options depend on your location. Please get in touch with our sales team for more information via [paper@dssmith.com](mailto:paper@dssmith.com).

# Liner 3

Liner 3 is produced in Aschaffenburg, Belišće, Kemsley, Lucca, Trakia, Witzenhausen, Zărnești and Dueñas. We can offer you two slightly different variations of Liner 3.

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- A very consistent appearance and stable properties ensuring corrugated board strength
- Excellent runnability on the corrugator with high production efficiency

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

30

Alternative grammages, not listed, may be available - please contact our sales team for more information.

## Liner 3 produced in Dueñas

Typical values

Property	Unit	Method	110	120	130	140	150	160	170
Grammage	g/m <sup>2</sup>	ISO 536	110	120	130	140	150	160	170
Burst strength	kPa	ISO 2758	268	290	310	340	360	385	405
SCT CD	kN/m	ISO 9895	1.72	1.85	2.00	2.15	2.30	2.45	2.70

Guaranteed values

Property	Unit	Method	110	120	130	140	150	160	170
Grammage	g/m <sup>2</sup>	ISO 536	110	120	130	140	150	160	170
Grammage average, min/max	%	ISO 536	±4	±4	±4	±4	±4	±4	±4
Moisture average	%	Online	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5	7.5±1.5
Burst strength, min	kPa	ISO 2758	240	260	280	300	325	345	360
SCT CD, min	kN/m	ISO 9895	1.55	1.65	1.80	1.95	2.10	2.25	2.40
Wax Pick (Dennison), min	#	T-549	14	14	14	14	14	14	14
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	35	35	35	35	35	35	35



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# Kraft Liners

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Made from predominantly sustainably sourced virgin fibre, our Kraft liners are boasting excellent resistance to tearing, moisture, stress, and punching.

## Grades available

- Brown Kraft Liner
- Brown Kraft Top Liner



# Brown Kraft Liner

Brown Kraft Liner is produced in Viana mill.

## Characteristics

- FSC® certified
- Made from sustainably sourced virgin fibres
- Excellent resistance to tearing, moisture, stress, and punching
- Great runnability achieving high production efficiency
- High compression strength retention over time so it's great for use in moist environments

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

00

Alternative grammages, not listed, may be available – please contact our sales team for more information.

### Typical values

Property	Unit	Method									
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>115</b>	<b>125</b>	<b>135</b>	<b>160</b>	<b>170</b>	<b>186</b>	<b>200</b>	<b>225</b>	<b>275</b>
Burst strength	kPa	ISO 2759	535	570	625	720	760	860	910	970	1130
SCT CD	kN/m	ISO 9895	2.30	2.55	2.75	3.30	3.50	3.85	4.10	4.60	5.80
Wax Pick (Dennison)	#	TAPPI T-459	18	18	18	18	18	18	18	18	18
Cobb 60s	g/m <sup>2</sup>	ISO 535	26	26	26	26	26	26	26	26	26
Scott Bond	J/m <sup>2</sup>	TAPPI T-569	320	320	320	320	320	300	300	280	280

### Guaranteed values

Property	Unit	Method									
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>115</b>	<b>125</b>	<b>135</b>	<b>160</b>	<b>170</b>	<b>186</b>	<b>200</b>	<b>225</b>	<b>275</b>
Grammage average, min/max	%	ISO 536	±3	±3	±3	±3	±3	±3	±3	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 +1.5/-1	8.0 +1.5/-1	8.0 +1.5/-1
Burst strength, min	kPa	ISO 2759	430	480	520	605	640	710	730	830	920
SCT CD, min	kN/m	ISO 9895	2.00	2.20	2.40	2.85	3.00	3.30	3.55	3.95	4.90
Scott Bond, min	J/m <sup>2</sup>	TAPPI T-569	220	220	220	220	220	220	220	220	220
Wax Pick (Dennison), min	#	TAPPI T-459	16	16	16	16	16	16	16	16	16
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	32	32	32	32	32	32	32	32	32

Please note that availability of products and delivery options depend on your location. Please get in touch with our sales team for more information via [paper@dssmith.com](mailto:paper@dssmith.com).

# Brown Kraft Top Liner

Brown Kraft Top Liner is produced in Viana mill.

## Characteristics

- FSC® certified
- Made from sustainably sourced virgin fibres
- Great runnability producing savings in terms of speed, fewer stoppages and losses
- High compression strength retention over time so it's great for use in moist environments

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

90

Alternative grammages, not listed, may be available - please contact our sales team for more information.



### Typical values

Property	Unit	Method			
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>115</b>	<b>140</b>	<b>165</b>
Burst strength	kPa	ISO 2759	360	440	520
SCT CD	kN/m	ISO 9895	2.10	2.50	3.10
Scott bond	J/m <sup>2</sup>	TAPPI T-569	260	240	240
Wax pick (Dennison)	#	TAPPI T-459	18	18	18
Cobb 60 s	g/m <sup>2</sup>	ISO 535	26	26	26

### Guaranteed values

Property	Unit	Method			
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>115</b>	<b>140</b>	<b>165</b>
Grammage average, min/max	%	ISO 536	±3	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1	8.0 ±1
Burst strength, min	kPa	ISO 2759	325	400	470
SCT CD, min	kN/m	ISO 9895	1.60	1.95	2.40
Scott Bond, min	J/m <sup>2</sup>	TAPPI T-569	200	200	200
Wax Pick (Dennison), min	#	TAPPI T-459	16	16	16
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	32	32	32

Please note that availability of products and delivery options depend on your location. Please get in touch with our sales team for more information via [paper@dssmith.com](mailto:paper@dssmith.com).

# White Liners

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Made from recycled fibre, our White Liners are smooth and world-class clean. They are ideal for packaging solutions with the high printing performance requirements of any modern conversion line.

## Grades available

- White Liner A
- White Liner B
- White Liner C



# White Liner A

White Liner A is produced in Kemsley and Dueñas mills. We can offer you two slightly different variations of White Liner A.

## White Liner A produced in Kemsley

Typical values

Property	Unit	Method		
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>130</b>	<b>160</b>
Burst strength	kPa	ISO 2758	310	360
SCT CD	kN/m	ISO 9895	2.25	2.75

Guaranteed values

Property	Unit	Method		
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>130</b>	<b>160</b>
Grammage average, min/max	%	ISO 536	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1
Burst strength, min	kPa	ISO 2758	270	335
SCT CD, min	kN/m	ISO 9895	2.10	2.55
Plybond, min	J/m <sup>2</sup>	TAPPI T-569	200	200
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	40	40
Cobb 1800s, max (if applicable)	g/m <sup>2</sup>	ISO 535	100	100
Brightness, min	%	ISO 2470-2	76	76
Roughness, Bendtsen, max	ml/min	ISO 8791-2	300	400

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- High brightness, great properties, and optimized smoothness
- A superior presentation liner with excellent printing quality and good strength for your boxes

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

70

Alternative grammages, not listed, may be available - please contact our sales team for more information.





# White Liner A

White Liner A is produced in Kemsley and Dueñas mills. We can offer you two slightly different variations of White Liner A.

## White Liner A produced in Dueñas

Typical values

Property	Unit	Method				
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>135</b>	<b>140</b>	<b>160</b>	<b>180</b>
Burst strength	kPa	ISO 2758	340	355	410	430
SCT CD	kN/m	ISO 9895	2.45	2.55	2.90	3.25
E.B.A.	ppm	T-437	50	50	50	50

Guaranteed values

Property	Unit	Method				
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>135</b>	<b>140</b>	<b>160</b>	<b>180</b>
Grammage average, min/max	%	ISO 536	±4	±4	±4	±4
Moisture average	%	Online	7.0 +1.5/-1	7.0 +1.5/-1	7.0 +1.5/-1	7.0 +1.5/-1
Burst strength, min	kPa	ISO 2758	310	320	365	390
SCT CD, min	kN/m	ISO 9895	2.25	2.30	2.65	2.95
Wax Pick (Dennison), min	#	T-549	14	14	14	14
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	35	35	35	35
Roughness, Bendtsen, max	ml/min	ISO 8791-2	600	600	600	600
ISO Brightness - R457	%	ISO 2470-1	74	74	74	74
E.B.A., max	ppm	T-437	100	100	100	100

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- High brightness, great properties, and optimized smoothness
- A superior presentation liner with excellent printing quality and good strength for your boxes

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

70

Alternative grammages, not listed, may be available - please contact our sales team for more information.



Please note that availability of products and delivery options depend on your location. Please get in touch with our sales team for more information via [paper@dssmith.com](mailto:paper@dssmith.com).

# White Liner B

White Liner B is produced in Kemsley and Dueñas mills. We can offer you two slightly different variations of White Liner B.

## White Liner B produced in Kemsley

Typical values

Property	Unit	Method		
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>120</b>	<b>135</b>
Burst strength	kPa	ISO 2758	270	300
SCT CD	kN/m	ISO 9895	1.95	2.20

Guaranteed values

Property	Unit	Method		
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>120</b>	<b>135</b>
Grammage average, min/max	%	ISO 536	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1
Burst strength, min	kPa	ISO 2758	230	260
SCT CD, min	kN/m	ISO 9895	1.70	1.95
Plybond, min	J/m <sup>2</sup>	TAPPI T-569	200	200
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	40	40
Brightness, min	%	ISO 2470-2	70	70
Roughness, Bendtsen, max	ml/min	ISO 8791-2	600	600

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- Presentation liner with excellent printing quality
- Optimum combination of print and strength characteristics to allow product optimisation

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

71

Alternative grammages, not listed, may be available - please contact our sales team for more information.



# White Liner B

White Liner B is produced in Kemsley and Dueñas mills. We can offer you two slightly different variations of White Liner B.

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- Presentation liner with excellent printing quality
- Optimum combination of print and strength characteristics to allow product optimisation

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

71

Alternative grammages, not listed, may be available - please contact our sales team for more information.

## White Liner B produced in Dueñas

### Typical values

Property	Unit	Method	120	125	130	135	140	155	160
Grammage	g/m <sup>2</sup>	ISO 536	120	125	130	135	140	155	160
Burst strength	kPa	ISO 2758	245	260	270	280	295	320	330
SCT CD	kN/m	ISO 9895	1.85	1.90	1.97	2.05	2.15	2.37	2.45

### Guaranteed values

Property	Unit	Method	120	125	130	135	140	155	160
Grammage	g/m <sup>2</sup>	ISO 536	120	125	130	135	140	155	160
Grammage average, min/max	%	ISO 536	±4	±4	±4	±4	±4	±4	±4
Moisture average	%	Online	7.0 +1.5/-1	7.0 +1.5/-1	7.0 +1.5/-1	7.0 +1.5/-1	7.0 +1.5/-1	7.0 +1.5/-1	7.0 +1.5/-1
Burst strength, min	kPa	ISO 2758	220	230	240	250	260	285	295
SCT CD, min	kN/m	ISO 9895	1.70	1.75	1.82	1.90	1.95	2.17	2.25
Wax Pick (Dennison), min	#	T-549	13	13	13	13	13	13	13
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	35	35	35	35	35	35	35
Roughness, Bendtsen, max	ml/min	ISO 8791-2	600	600	600	600	600	600	600
ISO Brightness - R457, min	%	ISO 2470-1	70	70	70	70	70	70	70
E.B.A., max	ppm	T-437	300	300	300	300	300	300	300



# White Liner C

White Liner C is produced in Lucca and Dueñas mills. We can offer you two slightly different variations of White Liner C.

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- Presentation liner with good printing quality

## Key Applications



<b>Typical Values</b>	Typical is what a customer can expect to receive on a customer reel average
<b>Guaranteed values</b>	Guaranteed is a min/max value of a property on a customer reel average
<b>Test conditions</b>	50% RH and 23°C
<b>Issue date</b>	January 2022
<b>CEPI Code</b>	72

Alternative grammages, not listed, may be available - please contact our sales team for more information.

## White Liner C produced in Lucca

Typical values

Property	Unit	Method				
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>120</b>	<b>125</b>	<b>135</b>	<b>150</b>
Burst strength	kPa	ISO 2758	230	235	255	275
SCT CD	kN/m	ISO 9895	1.75	1.80	1.95	2.15

Guaranteed values

Property	Unit	Method				
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>120</b>	<b>125</b>	<b>135</b>	<b>150</b>
Grammage average, min/max	%	ISO 536	±3	±3	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1
Burst strength, min	kPa	ISO 2758	210	220	235	255
SCT CD, min	kN/m	ISO 9895	1.60	1.65	1.75	1.90
Plybond, min	J/m <sup>2</sup>	TAPPI T-569	200	200	200	200
Cobb 60s, max (if applicable)	g/m <sup>2</sup>	ISO 535	40	40	40	40
Brightness, min	%	ISO 2470-1	64	64	64	64
Roughness, Bendtsen, max	ml/min	ISO 8791-2	600	600	600	600



# White Liner C

White Liner C is produced in Lucca and Dueñas mills. We can offer you two slightly different variations of White Liner C.

## White Liner C produced in Dueñas

Typical values

Property	Unit	Method			
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>115</b>	<b>120</b>	<b>125</b>
Burst strength	kPa	ISO 2758	185	190	200
SCT CD	kN/m	ISO 9895	1.40	1.45	1.50

Guaranteed values

Property	Unit	Method			
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>115</b>	<b>120</b>	<b>125</b>
Grammage average, min/max	%	ISO 536	±4	±4	±4
Moisture average	%	Online	7.0 +1.5/-1	7.0 +1.5/-1	7.0 +1.5/-1
Burst strength, min	kPa	ISO 2758	170	175	180
SCT CD, min	kN/m	ISO 9895	1.20	1.25	1.30
Wax Pick (Dennison), min	#	T-549	10	10	10
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	35	35	35
ISO Brightness - R457	%	ISO 2470-1	62	62	62
E.B.A., max	ppm	T-437	500	500	500

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- Presentation liner with good printing quality

## Key Applications



<b>Typical Values</b>	Typical is what a customer can expect to receive on a customer reel average
<b>Guaranteed values</b>	Guaranteed is a min/max value of a property on a customer reel average
<b>Test conditions</b>	50% RH and 23°C
<b>Issue date</b>	January 2022
<b>CEPI Code</b>	72

Alternative grammages, not listed, may be available - please contact our sales team for more information.



# Coated Papers

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Made from recycled fibre, our Coated Papers are specially-designed to reduce trapping and optimise dot gain. Ideal for packaging with the high-quality print requirements.

## Grades available

- Top Double Coated
- Double Coated
- Double Coated Economic



# Top Double Coated

Top Double Coated is produced in Dueñas mill.

Typical values

Property	Unit	Method				
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>180</b>
Burst strength	kPa	ISO 2758	295	315	335	380
		ISO 2759	340	360	380	424
SCT CD	kN/m	ISO 9895	2.65	2.85	3.05	3.40
Scott Bond	J/m <sup>2</sup>	T-569	320	320	320	320
Cobb 1800s	g/m <sup>2</sup>	ISO 535	80	80	80	80
Coated weight	g/m <sup>2</sup>	ITR-201-55	20	20	20	20
Roughness, PPS	um	ISO 8791-4	1.7	1.7	1.7	2.1
ISO Brightness - R457	%	ISO 2470-1	85	85	85	85
		ISO 2470-2	89	89	89	89
Gloss	°	ISO 8254-1	50	50	50	50
E.B.A.	ppm	T-437	3	3	3	3

Guaranteed values

Property	Unit	Method				
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>180</b>
Grammage average, min/max	%	ISO 536	±4	±4	±4	±4
Moisture average	%	Online	7.5 ±1	7.5 ±1	7.5 ±1	7.5 ±1
Burst strength, min	kPa	ISO 2758	240	260	285	335
SCT CD, min	kN/m	ISO 9895	2.40	2.55	2.70	3.05
Scott Bond, min	J/m <sup>2</sup>	T-569	280	280	280	280
Cobb 1800s, max	g/m <sup>2</sup>	ISO 535	110	110	110	110
Roughness, PPS, max	um	ISO 8791-4	2.4	2.4	2.4	2.8
ISO Brightness - R457, min	%	ISO 2470-1	82	82	82	82
E.B.A., max	ppm	T-437	10	10	10	10

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- Designed to reduce trapping and optimise dot gain
- Premium appearance in terms of neatness, brightness and whiteness
- Great mechanical quality in the folding process

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

77

Alternative grammages, not listed, may be available - please contact our sales team for more information.



Please note that availability of products and delivery options depend on your location. Please get in touch with our sales team for more information via [paper@dssmith.com](mailto:paper@dssmith.com).

# Double Coated

Double Coated is produced in Dueñas mill.

Typical values

Property	Unit	Method				
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>180</b>
Burst strength	kPa	ISO 2758	270	295	320	360
		ISO 2759	315	340	365	410
SCT CD	kN/m	ISO 9895	2.50	2.70	2.90	3.25
Scott Bond	J/m <sup>2</sup>	T-569	280	280	280	280
Cobb 60s	g/m <sup>2</sup>	ISO 535	35	35	35	35
Coated weight	g/m <sup>2</sup>	ITR-201-55	20	20	20	20
Roughness, PPS	um	ISO 8791-4	1.7	1.7	1.7	2.1
ISO Brightness - R457	%	ISO 2470-1	85	85	85	85
		ISO 2470-2	89	89	89	89
Gloss	°	ISO 8254-1	50	50	50	50
E.B.A.	ppm	T-437	3	3	3	3

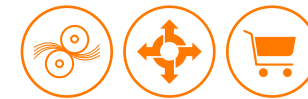
Guaranteed values

Property	Unit	Method				
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>180</b>
Grammage average, min/max	%	ISO 536	±4	±4	±4	±4
Moisture average	%	Online	7.5 ±1	7.5 ±1	7.5 ±1	7.5 ±1
Burst strength, min	kPa	ISO 2758	230	253	275	310
SCT CD, min	kN/m	ISO 9895	2.25	2.37	2.50	2.90
Scott Bond, min	J/m <sup>2</sup>	T-569	240	240	240	240
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	50	50	50	50
Roughness, PPS max	um	ISO 8791-4	2.4	2.4	2.4	2.8
ISO Brightness - R457, min	%	ISO 2470-1	82	82	82	82
E.B.A., max	ppm	T-437	10	10	10	10

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- Designed to reduce trapping and optimise dot gain
- Optimum quality for neatness, brightness and whiteness
- Great mechanical qualities

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

77

Alternative grammages, not listed, may be available - please contact our sales team for more information.





# Double Coated Economic

Double Coated Economic is produced in Dueñas mill.

Typical values

Property	Unit	Method					
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>180</b>
Burst strength	kPa	ISO 2758	220	240	270	300	320
		ISO 2759	265	285	300	345	365
SCT CD	kN/m	ISO 9895	2.25	2.40	2.45	2.70	3.05
Scott Bond	J/m <sup>2</sup>	T-569	280	280	280	280	280
Cobb 60s	g/m <sup>2</sup>	ISO 535	35	35	35	35	35
Coated weight	g/m <sup>2</sup>	ITR-201-55	18	18	18	18	18
Roughness, PPS	um	ISO 8791-4	2.0	2.0	2.0	2.0	2.2
ISO Brightness - R457	%	ISO 2470-1	80	80	80	80	80
		ISO 2470-2	83	83	83	83	83
Gloss	°	ISO 8254-1	44	44	44	44	44
E.B.A.	ppm	T-437	3	3	3	3	3

Guaranteed values

Property	Unit	Method					
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>130</b>	<b>140</b>	<b>150</b>	<b>160</b>	<b>180</b>
Grammage average, min/max	%	ISO 536	±4	±4	±4	±4	±4
Moisture average	%	Online	7.5 ±1	7.5 ±1	7.5 ±1	7.5 ±1	7.5 ±1
Burst strength, min	kPa	ISO 2758	200	215	250	265	290
SCT CD, min	kN/m	ISO 9895	1.95	2.10	2.15	2.40	2.70
Scott Bond, min	J/m <sup>2</sup>	T-569	240	240	240	240	240
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	50	50	50	50	50
Roughness, PPS, max	um	ISO 8791-4	2.5	2.5	2.5	2.5	2.9
ISO Brightness - R457, min	%	ISO 2470-1	77	77	77	77	77
E.B.A., max	ppm	T-437	10	10	10	10	10

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- Cost-effective solution with great printing capabilities
- Great mechanical qualities

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

77

Alternative grammages, not listed, may be available - please contact our sales team for more information.



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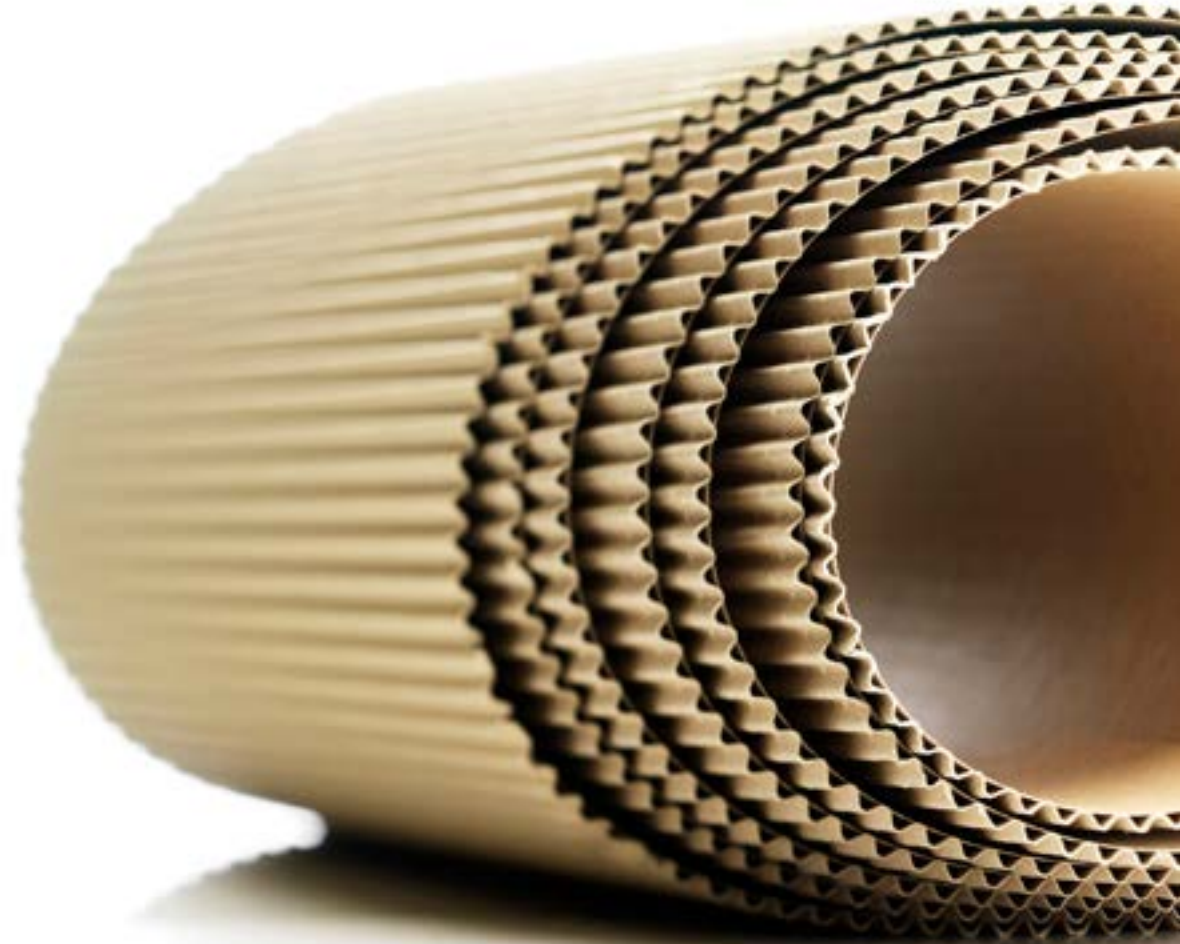
# Medium / Fluting

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We offer a wide range of Medium / Fluting grades, from light to high-performance to suit every application. Made from 100% recycled fibre, they are great at handling high speed converting in a robust manner.

## Grades available

- Medium Plus
- Medium HP Plus
- Medium HP WS



# Medium Plus

Medium Plus is produced in Aschaffenburg, Belišće, Kemsley, Rouen, Trakia, Witzhausen, Zărnești and Lucca mills.'

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- A very stable product with excellent runnability on the corrugator
- Highly competitive with higher characteristics than standard

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

44/60

Alternative grammages, not listed, may be available - please contact our sales team for more information.

Typical values			Light Medium Plus							
Property	Unit	Method	85	90	95	100	110	120	130	140
Grammage	g/m <sup>2</sup>	ISO 536	85	90	95	100	110	120	130	140
SCT CD	kN/m	ISO 9895	1.60	1.65	1.75	1.85	2.05	2.20	2.35	2.55
CMT 30	N	ISO 7263	-	-	-	165	180	205	220	235

Guaranteed values			85	90	95	100	110	120	130	140
Property	Unit	Method	85	90	95	100	110	120	130	140
Grammage	g/m <sup>2</sup>	ISO 536	85	90	95	100	110	120	130	140
Grammage average, min/max	%	ISO 536	±3	±3	±3	±3	±3	±3	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1
SCT CD, min	kN/m	ISO 9895	1.45	1.50	1.60	1.70	1.90	2.05	2.20	2.35
CMT 30, min	N	ISO 7263	-	-	-	150	165	185	200	215



# Medium High Performance Plus

Medium HP Plus is produced in Aschaffenburg, Belišće, Kemsley, Lucca, Rouen, Witzenhausen, Zărnești and Alcolea mills. We can offer you two slightly different variations of Medium HP Plus.

## Characteristics

- FSC® certified
- Made from 100% recycled fibres with performance additives to ensure very high strength properties
- A good alternative to Semi-Chemical fluting
- Good runnability and bonding

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

45

Alternative grammages, not listed, may be available - please contact our sales team for more information.

## Medium HP Plus produced in Aschaffenburg, Belišće, Kemsley, Lucca, Rouen, Witzenhausen and Zărnești

### Typical values

Property	Unit	Method									
Grammage	g/m <sup>2</sup>	ISO 536	105	115	120	130	135	150	160	165	200
SCT CD	kN/m	ISO 9895	2.15	2.35	2.50	2.65	2.75	3.10	3.25	3.35	4.00
CMT 30	N	ISO 7263	200	225	235	255	265	295	310	315	-

### Guaranteed values

Property	Unit	Method									
Grammage	g/m <sup>2</sup>	ISO 536	105	115	120	130	135	150	160	165	200
Grammage average, min/max	%	ISO 536	±3	±3	±3	±3	±3	±3	±3	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1
SCT CD, min	kN/m	ISO 9895	1.95	2.15	2.25	2.45	2.55	2.85	3.00	3.10	3.70
CMT 30, min	N	ISO 7263	185	210	220	235	245	275	285	290	-



# Medium High Performance Plus

Medium HP Plus is produced in Aschaffenburg, Belišće, Kemsley, Lucca, Rouen, Witzenhausen, Zărnești and Alcolea mills. We can offer you two slightly different variations of Medium HP Plus.

## Characteristics

- FSC® certified
- Made from 100% recycled fibres with performance additives to ensure very high strength properties
- A good alternative to Semi-Chemical fluting
- Good runnability and bonding

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

45

Alternative grammages, not listed, may be available - please contact our sales team for more information.

## Medium HP Plus produced in Alcolea

### Typical values

Property	Unit	Method					
Grammage	g/m <sup>2</sup>	ISO 536	130	140	150	160	170
SCT CD	kN/m	ISO 9895	2.85	3.10	3.30	3.50	3.75
CMT 30	N	ISO 7263	327	350	375	400	425

### Guaranteed values

Property	Unit	Method					
Grammage	g/m <sup>2</sup>	ISO 536	130	140	150	160	170
Grammage average, min/max	%	ISO 536	±4	±4	±4	±4	±4
Moisture average	%	Online	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5
SCT CD, min	kN/m	ISO 9895	2.60	2.80	3.00	3.20	3.40
CMT 30, min	N	ISO 7263	285	307	326	346	367
Porosity, Gurley, min	s/100ml	ISO 5636-5	30	30	30	30	30



# Medium High Performance Wet Strength

Medium HP WS is produced in Belišće and Alcolea mills. We can offer you two slightly different variations of Medium HP WS.

## Medium HP WS produced in Belišće

Typical values

Property	Unit	Method		
Grammage	g/m <sup>2</sup>	ISO 536	145	170
SCT CD	kN/m	ISO 9895	2.75	3.15
CMT 30	N	ISO 7263	315	340

Guaranteed values

Property	Unit	Method		
Grammage	g/m <sup>2</sup>	ISO 536	140	170
Grammage average, min/max	%	ISO 536	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1
SCT CD, min	kN/m	ISO 9895	2.50	2.85
CMT 30, min	N	ISO 7263	295	340
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	55	55

## Characteristics

- FSC® certified
- Made from 100% recycled fibres with performance additives and wet-strength to resist high moisture and retain high strength properties
- A good alternative to Semi-Chemical fluting
- Good runnability and bonding

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

Alternative grammages, not listed, may be available - please contact our sales team for more information.



# Medium High Performance Wet Strength

Medium HP WS is produced in Belišće and Alcolea mills. We can offer you two slightly different variations of Medium HP WS.

## Medium HP WS produced in Alcolea

Typical values

Property	Unit	Method		
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>170</b>	<b>190</b>
SCT CD	kN/m	ISO 9895	4.30	4.80
CMT 30	N	ISO 7263	425	-

Guaranteed values

Property	Unit	Method		
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>170</b>	<b>190</b>
Grammage average, min/max	%	ISO 536	±4	±4
Moisture average	%	Online	8.5 ±1.5	8.5 ±1.5
SCT CD, min	kN/m	ISO 9895	3.90	4.40
CMT 30, min	N	ISO 7263	374	-
Porosity, Gurley, min	s/100ml	ISO 5636-5	30	30

## Characteristics

- FSC® certified
- Made from 100% recycled fibres with performance additives to resist high humidity conditions and retain our highest strength properties
- A good alternative to Semi-Chemical fluting
- Good runnability and bonding

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

Alternative grammages, not listed, may be available - please contact our sales team for more information.



# Dual-Use

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Made from 100% recycled fibre, our Dual-Use grades perform well during the corrugator and the conversion process, meaning they can be utilised to their full potential in both sheet feeding and conventional printing sectors.

## Grades available

- Dual-Use
- Dual-Use HP Plus





# Dual-Use

Dual-Use is produced in Kemsley, Alcolea, Dueñas and Rouen mills. We can offer you two slightly different variations of Dual-Use.

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- Great runnability as Liner or Medium on the corrugator with very good strength properties
- Good solution for optimising warehouse stock

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

52

Alternative grammages, not listed, may be available - please contact our sales team for more information.

## Dual-Use produced in Kemsley and Rouen

### Typical values

Property	Unit	Method				
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>85</b>	<b>100</b>	<b>110</b>	<b>125</b>
Burst strength	kPa	ISO 2758	200	235	255	290
SCT CD	kN/m	ISO 9895	1.60	1.85	2.05	2.30
CMT 30	N	ISO 7263	-	160	175	200

### Guaranteed values

Property	Unit	Method				
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>85</b>	<b>100</b>	<b>110</b>	<b>125</b>
Grammage average, min/max	%	ISO 536	±3	±3	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1
Burst strength, min	kPa	ISO 2758	180	210	230	260
SCT CD, min	kN/m	ISO 9895	1.45	1.70	1.90	2.15
CMT 30, min	N	ISO 7263	-	145	160	180
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	45	45	45	45



# Dual-Use

Dual-Use is produced in Kemsley, Alcolea, Dueñas and Rouen mills. We can offer you two slightly different variations of Dual-Use.

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- Great runnability as Liner or Medium on the corrugator with very good strength properties
- Good solution for optimising warehouse stock

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

52

Alternative grammages, not listed, may be available - please contact our sales team for more information.

## Dual-Use produced in Alcolea and Dueñas

### Typical values

Property	Unit	Method						
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>100</b>	<b>110</b>	<b>130</b>	<b>145</b>	<b>160</b>	<b>190</b>
Burst strength	kPa	ISO 2758	230	250	315	350	385	455
SCT CD	kN/m	ISO 9895	1.80	2.00	2.30	2.60	2.90	3.45
CMT 30	N	ISO 7263	190	210	245	265	300	-

### Guaranteed values

Property	Unit	Method						
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>100</b>	<b>110</b>	<b>130</b>	<b>145</b>	<b>160</b>	<b>190</b>
Grammage average, min/max	%	ISO 536	±4	±4	±4	±4	±4	±4
Moisture average	%	Online	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5
Burst strength, min	kPa	ISO 2758	200	220	265	290	320	380
SCT CD, min	kN/m	ISO 9895	1.60	1.75	2.10	2.35	2.55	3.00
CMT 30, min	N	ISO 7263	165	180	214	235	260	-
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	50	50	50	50	50	50



# Dual-Use High Performance Plus

Dual-Use HP Plus is produced in Kemsley mill.

## Characteristics

- FSC® certified
- Made from 100% recycled fibres
- Great runnability as Liner or Medium on the corrugator with the highest strength properties available to suit demanding applications
- Good solution for optimising warehouse stock

## Key Applications



### Typical Values

Typical is what a customer can expect to receive on a customer reel average

### Guaranteed values

Guaranteed is a min/max value of a property on a customer reel average

### Test conditions

50% RH and 23°C

### Issue date

January 2022

### CEPI Code

52

Alternative grammages, not listed, may be available - please contact our sales team for more information.

### Typical values

Property	Unit	Method	
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>130</b>
Burst strength	kPa	ISO 2758	335
SCT CD	kN/m	ISO 9895	2.70
CMT 30	N	ISO 7263	245

### Guaranteed values

Property	Unit	Method	
<b>Grammage</b>	<b>g/m<sup>2</sup></b>	<b>ISO 536</b>	<b>130</b>
Grammage average, min/max	%	ISO 536	±3
Moisture average	%	Online	8.0 ±1
Burst strength, min	kPa	ISO 2758	300
SCT CD, min	kN/m	ISO 9895	2.45
CMT 30, min	N	ISO 7263	210
Cobb 60s, max	g/m <sup>2</sup>	ISO 535	45





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