

# Kaskad Osprey White 350g/m<sup>2</sup> (TCF)

## Technical Information

4 = amendment      : = addition 6 = deletion

Substance g/m <sup>2</sup>	350	
Caliper μm (approx)	460	
Opacity (ISO) %	-	
Brightness (ISO) %	92	
Whiteness CIE D65	128	
Smoothness (Bendtsen) TS ml/min WS	500 500	
Rigidity (Taber) 15° MD Stiffness Units CD	194 96	4 4
Surface pH	5.6	

## Environmental Information

### CONSTITUENTS OF PAPER

**Fibre Source** – Virgin wood fibre from sawmill residues, forest thinnings and sustainable forest in Europe and North America.

**Mill Broke** – All broke is recycled and can be as high as 20% of the total fibre content. **Filler** – approx 4 grammes.

### BLEACHING

Pulps used in the production of the above grade are Totally Chlorine Free (TCF) giving zero AOX.

### DISPOSAL OF WASTE BY-PRODUCTS

Dried and reused in production of fibre board.

### PAPER MILL EFFLUENT

Water used is suitably treated and in most cases returned to source in a better condition than when removed, in accordance with strict local laws.

### ENERGY SOURCE

Gas .

### TOTAL GROSS PRIMARY ENERGY (Paper Mill)

16 Giga Joules / 1,000 kg of paper/board.

*This material is recyclable and bio-degradable.*

*This product complies with EN71 (BS5665) Part 3 Toy Safety Regulations.*

*The Mill has ISO 9002 Accreditation.*

## Technical Capability

Printing Process	- Litho, Letterpress and Silk Screen
Screen Ruling	- Up to 150
Printing Inks	- Conventional, UV and IR are preferred, however Press Open inks have been found to be satisfactory.
Embossing	- Yes
Varnishing (board substances only)	- Machine or UV silk screen varnishing are both possible, provided it is carried out on top of emulsion sealing. For high gloss results it will be necessary to matt UV varnish on top of emulsion sealer before gloss UV varnishing. Good results have been obtained by spot varnishing on solids or dense tones by either method. - Any varnish applied directly to unprinted areas of the sheet may cause variations in gloss levels.
Emulsion Sealing (board substances only)	- Yes
Hot Foil Blocking	- Yes
Thermography	- Yes
Creasing	- Pre-creasing is advisable e.g. Channel Matrix and a rounded 2-point rule or similar.
Toy Safety	- Yes, EN71 (BS5665) Part 3

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## Kaskad Osprey White except 350g/m<sup>2</sup> (ECF)<sub>4</sub> Technical Information

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Substance g/m <sup>2</sup>	80	120	160	180	225	270	:
Caliper $\mu$ m (approx)	100	150	200	230	280	340	4
Opacity (ISO) %	88	93	96	-	-	-	
Brightness (ISO) %	95	95	95	95	95	95	
Whiteness CIE D65	133	133	133	133	133	133	
Smoothness (Bendtsen) TS ml/min WS	350 350	350 350	350 350	350 350	350 350	350 350	
Rigidity (Taber) 15° MD Stiffness Units CD	2.4 0.9	7.4 3.5	22.0 10.0	26.0 13.0	59.5 32.5	86.0 41.5	
Surface pH	7.9	7.9	7.9	7.9	7.9	7.9	4

### Environmental Information

#### CONSTITUENTS OF PAPER

**Fibre Source** – Virgin wood fibre from sawmill residues, forest thinnings and sustainable forest in Sweden.

**Mill Broke** – All broke is recycled and can be as high as 20% of the total fibre content. **Filler** – approx 20 grammes.

#### BLEACHING

Pulps used in the production of the above grade are Elemental Chlorine Free (ECF) giving a resultant AOX level of < 0.5kg per 1000 kg of pulp.

#### DISPOSAL OF WASTE BY-PRODUCTS

Dried and reused in production of fibre board.

#### PAPER MILL EFFLUENT

Water used is suitably treated and in most cases returned to source in a better condition than when removed, in accordance with strict local laws.

#### ENERGY SOURCE

Main source of power from incineration of black liquor and bark. **Oil** – (standby)

#### TOTAL GROSS PRIMARY ENERGY (Paper Mill)

9.7 Giga Joules / 1,000 kg of paper/board.

**This material is recyclable and bio-degradable.**

**This product complies with EN71 (BS5665) Part 3 Toy Safety Regulations.**

**This product meets ISO 9706 requirements for permanence of paper.**

**The Mill has ISO 9001 Accreditation.**

## Technical Capability

<b>Printing Process</b>	-	Litho, Letterpress and Silk Screen
<b>Screen Ruling</b>	-	Up to 150
<b>Printing Inks</b>	-	Conventional, UV and IR are preferred, however Press Open inks have been found to be satisfactory.
<b>Embossing</b>	-	Yes
<b>Varnishing (board substances only)</b>	-	Machine or UV silk screen varnishing are both possible, provided it is carried out on top of emulsion sealing. For high gloss results it will be necessary to matt UV varnish on top of emulsion sealer before gloss UV varnishing. Good results have been obtained by spot varnishing on solids or dense tones by either method. Any varnish applied directly to unprinted areas of the sheet may cause variations in gloss levels.
<b>Emulsion Sealing (board substances only)</b>	-	Yes
<b>Hot Foil Blocking</b>	-	Yes
<b>Thermography</b>	-	Yes
<b>Creasing</b>	-	Pre-creasing is advisable on 225 g/m <sup>2</sup> and above with Channel Matrix and a rounded 2-point rule or similar.

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# Kaskad Colours (ECF)<sup>4</sup>

## Technical Information

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Substance g/m <sup>2</sup>	70	80	100	120	160	180	225	270	:
Caliper µm (approx)	88	100	125	150	200	230	280	340	4
Smoothness (Bendtsen) TS	350	350	350	350	350	350	350	350	
ml/min WS	350	350	350	350	350	350	350	350	
Rigidity (Taber) 15° MD	1.4	2.4	6.4	7.4	19.0	26.0	49	82	
Stiffness Units CD	0.8	0.9	3.2	3.5	9.0	14.0	20	36	
Surface pH	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	4

## Environmental Information

### CONSTITUENTS OF PAPER

**Fibre Source** – Virgin wood fibre from sawmill residues, forest thinnings and sustainable forest in Sweden.

**Mill Broke** – All broke is recycled and can be as high as 20% of the total fibre content. **Filler** – approx 10/15 grammes.

### BLEACHING

Pulps used in the production of the above grade are Elemental Chlorine Free (ECF) giving a resultant AOX level of <0.5kg per 1000 kg of pulp.

### DISPOSAL OF WASTE BY-PRODUCTS

Dried and reused in production of fibre board.

### PAPER MILL EFFLUENT

Water used is suitably treated and in most cases returned to source in a better condition than when removed, in accordance with strict local laws.

### ENERGY SOURCE

Main source of power from incineration of black liquor and bark. **Oil** (standby)

### TOTAL GROSS PRIMARY ENERGY (Paper Mill)

9.7 Giga Joules / 1,000 kg of paper/board.

*This material is recyclable and bio-degradable.*

*This product complies with EN71 (BS5665) Part 3 Toy Safety Regulations.*

*This product meets ISO 9706 requirements for permanence of paper.*

*The Mill has ISO 9001 Accreditation.*

## Technical Capability

<b>Printing Process</b>	-	Litho, Letterpress and Silk Screen
<b>Screen Ruling</b>	-	Up to 150
<b>Printing Inks</b>	-	Conventional, UV and IR are preferred, however Press Open inks have been found to be satisfactory.
<b>Embossing</b>	-	Yes
<b>Varnishing</b>	-	Machine or UV silk screen varnishing are both possible, provided it is carried out on top of emulsion sealing. For high gloss results it will be necessary to matt UV varnish on top of emulsion sealer before gloss UV varnishing. Good results have been obtained by spot varnishing on solids or dense tones by either method.
<b>(board substances only)</b>	-	Any varnish applied directly to unprinted areas of the sheet may cause variations in gloss levels.
<b>Emulsion Sealing</b>	-	Yes
<b>(board substances only)</b>	-	Yes
<b>Hot Foil Blocking</b>	-	Yes
<b>Thermography</b>	-	Yes
<b>Creasing</b>	-	Pre-creasing is advisable on 225 g/m <sup>2</sup> and above with Channel Matrix and a rounded 2-point rule or similar.

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