

Conqueror Wove Brilliant White (ECF) *

* High Sensitivity

Technical Information

√ = amendment + = addition X = deletion

Substance g/m ²	80	90	100
Caliper μm (approx)	105	125	135
Opacity (ISO) %	84	90	91
Brightness (ISO) % C	96	96	96
Whiteness CIE D65	130	130	130
Smoothness (Bendtsen) TS ml/min	150 200	150 200	150 200
Rigidity (Taber) 15° MD mN m	0.25* 0.11*	0.36* 0.24*	0.47* 0.30*
Surface pH	7.6	7.6	7.6

Environmental Information

Constituents of Paper

Fibre Source – 20% cotton, 80% virgin wood fibre from sawmill residues, forest thinnings and sustainable forest in Spain, Canada, Sweden, Germany, Brazil, USA and Portugal. **Mill Broke** - All broke is recycled and can be as high as 20% of the total fibre content. **Filler** – approx 10 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 1,000 kg of pulp.

DISPOSAL OF WASTE BY-PRODUCTS

Soil conditioner and a small amount to landfill.

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. Water is reused many times.

ENERGY SOURCE

Gas, Oil, Electricity

TOTAL GROSS PRIMARY ENERGY (Paper Mill)

14 Giga Joules / 1,000 kg of paper.

This material is recyclable and bio-degradable.

This product meets ISO 9706 requirements for permanence of paper.

This Mill has ISO 9002 Accreditation. : This Mill has ISO 14001 Accreditation. + X

Technical Capability

Printing Process	- Litho
Screen Ruling	- Up to 150
Printing Inks	- Conventional, UV and IR are preferred. High temperature resistant Fully Oxidizing ink for laser printing.
Embossing	- Yes
Hot Foil Blocking	- Yes – Laser grade foil available.
Thermography	- Yes
Laser/Copier Guaranteed	- Mono (desktop only)
Inkjet Guaranteed	- Mono
Plain Paper Fax	- Yes
Permanence of Paper	- Yes, ISO 9706

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Conqueror Wove Diamond White (ECF) *

Technical Information

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Substance g/m ²	100	300
Caliper μm (approx)	135	350
Opacity (ISO) %	94	-
Brightness (ISO) % C	95	95
Whiteness CIE D65	140	140
Smoothness (Bendtsen) TS ml/min	200 200	200 200
Rigidity (Taber) 15° MD mN m	0.44* 0.24*	12.5 6.0
Surface pH	7.5	7.5

Environmental Information

Constituents of Paper

Fibre Source – 20% cotton, 80% virgin wood fibre from sawmill residues, forest thinnings and sustainable forest in Spain, Canada, Sweden, Germany, Brazil, USA and Portugal. **Mill Broke** - All broke is recycled and can be as high as 20% of the total fibre content. **Filler** – approx 16 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 1,000 kg of pulp.

DISPOSAL OF WASTE BY-PRODUCTS

Soil conditioner and a small amount to landfill.

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. Water is reused many times.

ENERGY SOURCE

Gas

TOTAL GROSS PRIMARY ENERGY (Paper Mill)

15.2 Giga Joules / 1,000 kg of paper.

This material is recyclable and bio-degradable.

This product meets ISO 9706 requirements for permanence of paper.

This Mill has ISO 9002 Accreditation. +

This Mill has ISO 14001 Accreditation. +√

Technical Capability

Printing Process	- Litho
Screen Ruling	- Up to 150
Printing Inks	- Conventional, UV and IR are preferred. High temperature resistant Fully Oxidizing ink for laser printing.
Embossing	- Yes
Hot Foil Blocking	- Yes – Laser grade foil available.
Thermography	- Yes
Laser/Copier Guaranteed	- Mono 100 g/m ² (desktop only)
Inkjet Guaranteed	- Mono 100 g/m ²
Permanence of Paper	- Yes, ISO 9706

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Conqueror Wove High White (ECF) *

Technical Information

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Substance g/m ²	70	80	90	100	120	300
Caliper μm (approx)	90	100	115	130	150	330
Opacity (ISO) %	85	85	87	91	93	-
Brightness (ISO) % C	84	84	84	84	84	84
Whiteness CIE D65	94	94	94	94	94	94
Smoothness (Bendtsen) TS ml/min WS	200 210	200 210	200 210	200 210	200 210	200 210
Rigidity (Taber) 15° MD mN m CD	0.24* 0.19*	0.27* 0.21*	0.38* 0.24*	0.49* 0.35*	0.78* 0.50*	13.5 6.5
Surface pH	7.2	7.2	7.2	7.2	7.2	7.2

Environmental Information

Constituents of Paper

Fibre Source – 20% cotton, 80% virgin wood fibre from sawmill residues, forest thinnings and sustainable forest in Spain, Canada, Sweden, Germany, Brazil, USA and Portugal. **Mill Broke** - All broke is recycled and can be as high as 20% of the total fibre content. **Filler** – approx 14 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 1,000 kg of pulp.

DISPOSAL OF WASTE BY-PRODUCTS

Soil conditioner and a small amount to landfill.

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. Water is reused many times.

ENERGY SOURCE

Gas, Oil, Electricity

TOTAL GROSS PRIMARY ENERGY (Paper Mill)

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

This material is recyclable and bio-degradable. This product meets ISO 9706 requirements for permanence of paper.

This Mill has ISO 9002 Accreditation. : This Mill has ISO 14001 Accreditation. + X

Technical Capability

- Printing Process** - Litho
- Screen Ruling** - Up to 200
- Printing Inks** - Conventional, UV and IR are preferred. High temperature resistant Fully Oxidizing ink for laser printing.
- 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 direct to unprinted areas of the sheet may cause variations in gloss levels.
- Emulsion Sealing (board substances only)** - Yes
- Hot Foil Blocking** - Yes – Laser grade foil available.
- Thermography** - Yes
- Laser/Copier Guaranteed** - Mono (desktop only)
- Inkjet Guaranteed** - Mono
- Creasing** - Pre-creasing is advisable e.g. 300 g/m² or when folding through a solid or dense tone with , by using a creasing matrix
- Permanence of Paper** - Yes, ISO 9706

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