



# *Certificate of Approval*

*Awarded to*

**SOPORCEL – Sociedade Portuguesa de Papel, S.A.**  
LAVOS  
3081-851 FIGUEIRA DA FOZ

*Bureau Veritas Quality International Portugal Lda, certify that the Quality Management System of the above organization has been assessed and found to be in accordance with the requirements of the quality standards detailed below*

QUALITY STANDARDS

**NP EN ISO 9001:2000**

SCOPE OF SUPPLY

**PRODUCTION AND DEVELOPMENT ACTIVITIES OF EUCALIPTUS PULP AND  
PRINTING AND WRITING PAPERS**

*Original approval date:* **01 . April . 2003**

*Subject to the continued satisfactory operation of the organization's  
Quality Management System, this Certificate is valid until:*

**01 . April . 2006**

Date: **08 . September . 2003**



*By BVQI Portugal, Lda  
Praça Bernardo Soares, nº 5 B  
1900 – 098 Lisboa  
PORTUGAL*



## Certification

Awarded to

# SOPORCEL

## Sociedade Portuguesa de Papel, SA.

Lavos  
3081 - 851 FIGUEIRA DA FOZ  
PORTUGAL

BVQI certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

Standards

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# NP EN ISO 14001: 1999

Scope of supply

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## Development Manufacture Activities of Bleached Eucalyptus and Printing and Writing Paper Grades.

Original Approval Date: **20 February 2001**

Subject to the continued satisfactory operation of the organisation's Management System, this certificate is valid

Until: **20 February 2007**

To check this certificate validity please call (+351 21 710 09 70)

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation

Certificate Number: 155492

Date: 2 September 2004

Issuing Office  
BVQI Portugal Lda.  
Estrada do Paço do Lumiar  
Poço Tecnológico, Lote 17  
Edifício Rinave  
1600 - 485 LISBOA  
PORTUGAL



## DECLARATION

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### Product Content

According to current production recipes typical content of Soporcel grades are as described below:

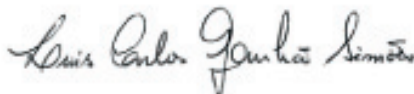
- ECF bleached kraft pulp\*

ECF hardwood kraft pulp (Eucalyptus) – Made by Soporcel

ECF softwood kraft pulp (Nordic Pine) – Mainly from Finland

\* No recycled pulp is used.

- Filler, PCC (Precipitated Calcium Carbonate)
- Starch
- Water
- Retention aids, hydrophobic sizing agent and optical brighteners, all of them in accordance with FDA regulations or European Standards and in quantities that are worldwide used and safe.



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Luís Simões  
Product Engineer  
Mill Technical Service

09 September 2004

<b>Product</b>	Soporset Pre-print
<b>Company</b>	Soporcel - Sociedade Portuguesa de Papel, S.A.
<b>Site</b>	Figueira da Foz

Information gathered from January 2003 to December 2003

## Environmental product declaration for paper

### Environmental Management

**Certified environmental management system** (at the mill since) ISO 14001, Feb.2001

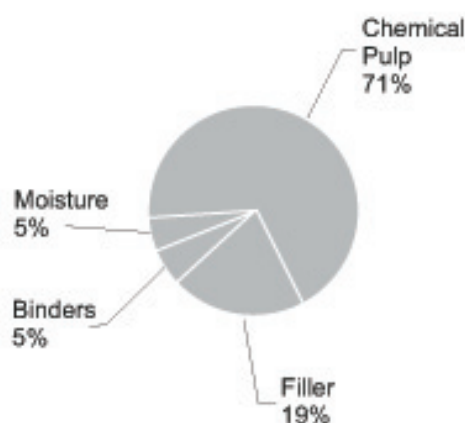
**Environmental aspects of wood procurement** 100% of the wood consumption (eucalyptus) originates from plantations established on set aside land for agriculture or unoccupied land. The logging takes place in accordance with the national laws. Working towards PEFC forest certification in company's own forests.

### Environmental parameters

The figures are based on methods and procedures of measurement approved by the local (or national) environmental regulators at the production site. The figures include both paper and pulp production.

<b>Water</b>	<b>COD</b>	15	kg/t
	<b>AOX</b>	0,26	kg/t
	<b>N<sub>Tot</sub></b>	0,09	kg/t
	<b>P<sub>Tot</sub></b>	0,11	kg/t
<b>Air</b>	<b>SO<sub>2</sub></b>	1,42	kg/t
	<b>NO<sub>x</sub></b>	1,24	kg/t
	<b>CO<sub>2</sub> (fossil)</b>	137	kg/t
<b>Solid waste landfilled</b>		28	BDkg/t
<b>Purchased electricity consumption</b>			
/ tonne of final product		540	kWh

### Product composition



### More information

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## FOLIO SHEETS

		60g/m <sup>2</sup>	70g/m <sup>2</sup>	80g/m <sup>2</sup>	90g/m <sup>2</sup>	Tolerance
<b>OPTICAL PARAMETERS</b>						
	ISO 11475	<b>155</b>	<b>155</b>	<b>155</b>	<b>155</b>	+/- 3
	ISO 2470	<b>109</b>	<b>109</b>	<b>109</b>	<b>109</b>	+/- 3
	ISO 2471	<b>87</b>	<b>91</b>	<b>94</b>	<b>95</b>	- 2

## PHYSICAL PARAMETERS

	ISO 536	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	+/- 2 (60) +/- 3 (70) +/- 4 (80/90)
	ISO 534	<b>80</b>	<b>92</b>	<b>106</b>	<b>116</b>	+/- 3
	ISO 2493	<b>50/20</b>	<b>70/25</b>	<b>100/35</b>	<b>140/50</b>	Minimum
	ISO 1924/2	<b>4,0</b>	<b>4,5</b>	<b>4,5</b>	<b>5,0</b>	Minimum
	ME-PAP-010	<b>25</b>	<b>30</b>	<b>30</b>	<b>30</b>	Minimum
	ISO 5636/3	<b>1700</b>	<b>1700</b>	<b>1700</b>	<b>1700</b>	Maximum
	ISO 8791/2	<b>150</b>	<b>150</b>	<b>150</b>	<b>150</b>	+/- 40
	ISO 287	<b>6,2</b>	<b>6,2</b>	<b>6,0</b>	<b>6,0</b>	+/- 1,0

## Additional Information





## FOLIO SHEETS

		100g/m <sup>2</sup>	110g/m <sup>2</sup>	120g/m <sup>2</sup>	Tolerance
<b>OPTICAL PARAMETERS</b>					
	ISO 11475	<b>155</b>	<b>155</b>	<b>155</b>	+/- 3
	ISO 2470	<b>109</b>	<b>109</b>	<b>109</b>	+/- 3
	ISO 2471	<b>96</b>	<b>97</b>	<b>98</b>	- 2

### PHYSICAL PARAMETERS

	ISO 536	<b>100</b>	<b>110</b>	<b>120</b>	+/- 4
	ISO 534	<b>128</b>	<b>141</b>	<b>150</b>	+/- 3
	ISO 2493	<b>180/70</b>	<b>220/90</b>	<b>260/110</b>	Minimum
	ISO 1924/2	<b>5,5</b>	<b>5,5</b>	<b>6,0</b>	Minimum
	ME-PAP-010	<b>30</b>	<b>30</b>	<b>30</b>	Minimum
	ISO 5636/3	<b>1700</b>	<b>1700</b>	<b>1700</b>	Maximum
	ISO 8791/2	<b>150</b>	<b>150</b>	<b>150</b>	+/- 40
	ISO 287	<b>5,8</b>	<b>5,8</b>	<b>5,8</b>	+/- 1,0

### Additional Information





## FOLIO SHEETS

**135 g/m<sup>2</sup> 150 g/m<sup>2</sup> 170 g/m<sup>2</sup> 190 g/m<sup>2</sup> Tolerance**

### OPTICAL PARAMETERS

	ISO 11475	<b>155</b>	<b>155</b>	<b>155</b>	<b>155</b>	+/-3
	ISO 2470	<b>109</b>	<b>109</b>	<b>109</b>	<b>109</b>	+/-3
	ISO 2471	<b>95</b>	<b>97</b>	<b>98</b>	<b>98</b>	Minimum

### PHYSICAL PARAMETERS

	ISO 536	<b>135</b>	<b>150</b>	<b>170</b>	<b>190</b>	+/-5%
	ISO 534	<b>155</b>	<b>172</b>	<b>205</b>	<b>230</b>	+/-6%
	ISO 8791/2	<b>150</b>	<b>150</b>	<b>200</b>	<b>200</b>	+/-50 -75/+50
	ISO 287	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	+/-1%

### Additional Information





## FOLIO SHEETS

**225 g/m<sup>2</sup> 250 g/m<sup>2</sup> 300 g/m<sup>2</sup> 350 g/m<sup>2</sup> Tolerance**

### OPTICAL PARAMETERS

		<b>225 g/m<sup>2</sup></b>	<b>250 g/m<sup>2</sup></b>	<b>300 g/m<sup>2</sup></b>	<b>350 g/m<sup>2</sup></b>	<b>Tolerance</b>
	ISO 11475	<b>155</b>	<b>155</b>	<b>155</b>	<b>155</b>	+/-3
	ISO 2470	<b>109</b>	<b>109</b>	<b>109</b>	<b>109</b>	+/-3
	ISO 2471	<b>98</b>	<b>98</b>	<b>98</b>	<b>98</b>	Minimum

### PHYSICAL PARAMETERS

		<b>225 g/m<sup>2</sup></b>	<b>250 g/m<sup>2</sup></b>	<b>300 g/m<sup>2</sup></b>	<b>350 g/m<sup>2</sup></b>	<b>Tolerance</b>
	ISO 536	<b>225</b>	<b>250</b>	<b>300</b>	<b>350</b>	+/-5%
	ISO 534	<b>275</b>	<b>305</b>	<b>365</b>	<b>425</b>	+/-6%
	ISO 8791/2	<b>200</b>	<b>200</b>	<b>200</b>	<b>200</b>	-75/+50
	ISO 287	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	+/-1%

### Additional Information






## FOLIO SHEETS

**75 g/m<sup>2</sup> 80 g/m<sup>2</sup> 90g/m<sup>2</sup> 100g/m<sup>2</sup> 120g/m<sup>2</sup> Tolerance**

### OPTICAL PARAMETERS

	ISO 11475	<b>164</b>	<b>164</b>	<b>164</b>	<b>164</b>	<b>164</b>	+/- 3
	ISO 2470	<b>111</b>	<b>111</b>	<b>111</b>	<b>111</b>	<b>111</b>	+/- 3
	ISO 2471	<b>93</b>	<b>95</b>	<b>96</b>	<b>97</b>	<b>98</b>	- 2

### PHYSICAL PARAMETERS

	ISO 536	<b>75</b>	<b>80</b>	<b>90</b>	<b>100</b>	<b>120</b>	+/- 3 (75) +/- 4 (80-120)
	ISO 534	<b>103</b>	<b>108</b>	<b>115</b>	<b>118</b>	<b>126</b>	+3 / -2 (75) +/- 3 (80,90) +/- 2 (100/120)
	ISO 2493	<b>100/35</b>	<b>120/45</b>	<b>150/60</b>	<b>170/60</b>	<b>220/90</b>	Minimum
	ISO 1924/2	<b>5,0</b>	<b>6,0</b>	<b>6,5</b>	<b>7,0</b>	<b>8,0</b>	Minimum
	ME-PAP-010	<b>25</b>	<b>30</b>	<b>30</b>	<b>40</b>	<b>45</b>	Minimum
	ISO 5636/3	<b>1700</b>	<b>1700</b>	<b>1700</b>	<b>1700</b>	<b>1700</b>	Maximum
	ISO 8791/2	<b>180</b>	<b>150</b>	<b>150</b>	<b>100</b>	<b>50</b>	+/- 40 (75/80/90) +/- 30 (100/120)
	ISO 287	<b>5,0</b>	<b>5,0</b>	<b>5,0</b>	<b>5,0</b>	<b>5,0</b>	+0,3 / -0,4 %

### Additional Information




## FOLIO SHEETS

**135 g/m<sup>2</sup> 160 g/m<sup>2</sup> 250 g/m<sup>2</sup> Tolerance**

### OPTICAL PARAMETERS

		<b>135 g/m<sup>2</sup></b>	<b>160 g/m<sup>2</sup></b>	<b>250 g/m<sup>2</sup></b>	<b>Tolerance</b>
	ISO 11475	<b>164</b>	<b>164</b>	<b>164</b>	+/-3
	ISO 2470	<b>111</b>	<b>111</b>	<b>111</b>	+/-3
	ISO 2471	<b>96,5</b>	<b>97,5</b>	<b>98</b>	Minimum

### PHYSICAL PARAMETERS

	ISO 536	<b>135</b>	<b>160</b>	<b>250</b>	+/-5%
	ISO 534	<b>140</b>	<b>170</b>	<b>275</b>	+/-5% (160) +/- 6% (135,250)
	ISO 8791/2	<b>50</b>	<b>50</b>	<b>80</b>	≤ 90 (135,160) ≤ 130 (250)
	ISO 287	<b>5</b>	<b>5</b>	<b>6</b>	+/- 0,5% (135,160) -1%/ + 0,5% (250)

### Additional Information

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