

<b>Product</b>	<b>Munken Design</b>
<b>Company</b>	<b>Arctic Paper</b>
<b>Mill</b>	<b>Arctic Paper Munkedals AB</b>

Information gathered from 2010-01-01 to 2010-12-31

Date of issue 2011-07-31

## Environmental product declaration for paper

### Environmental Management

Certified environmental management system at	ISO 14001 ( 2001 ) EMAS (2002 )
Company systems ensure traceability of the origin of wood	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> 100% recovered paper
Environmental aspects of wood procurement :	FSC-certified wood and PEFC-certified wood.

### 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>	<b>12,50</b>	kg/tonne
	<b>AOX</b>	<b>0,10</b>	kg/tonne
	<b>N<sub>Tot</sub></b>	<b>0,12</b>	kg/tonne
	<b>P<sub>Tot</sub></b>	<b>0,04</b>	kg/tonne

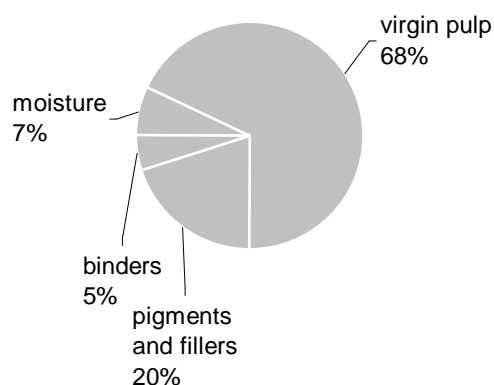
<b>Air</b>	<b>SO<sub>2</sub></b>	<b>1,06</b>	kg/tonne
	<b>NO<sub>x</sub></b>	<b>1,24</b>	kg/tonne
	<b>CO<sub>2</sub> (fossil)</b>	<b>344,18</b>	kg/tonne

<b>Solid waste landfilled</b>	<b>11,20</b>	BDkg/tonne
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#### Purchased electricity consumption

/tonne of final product	<b>696,70</b>	kWh
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### Product composition



### More information

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## Arctic Paper Munkedals AB

### Paper Mill Environmental Declaration

#### Product information: Munken Design - Munken Pure/Lynx/Polar

Munken design qualities are exclusive uncoated papers in three shades and two surfaces. The qualities are perfectly suited for high value printed matter as books, catalogues, corporate paper, periodicals, educational materials and high-quality advertising material. The paper is available in grammages between 70 -400 g/m<sup>2</sup>. Munken design qualities are graphical design paper developed for multi-functionality but especially suitable for various kinds of offset printing. Other suitable printing methods are flexo, screen, laser and inkjet printing.

#### Mill Environmental Parameters 2010

		Product	BAT <sup>1</sup>	Description <sup>2</sup>
<b>Water</b>	Quantity <sup>3</sup>	4,3	10-15	m <sup>3</sup> /t
	COD	0,59	0,5-2	kg/t
	AOX	0,001	<0,005	kg/t
	Ntot	0,035	0,05-0,2	kg/t
	Ptot	0,0029	0,003-0,01	kg/t
<b>Air</b>	SO <sub>2</sub>	0,17		kg/t
	NO <sub>x</sub>	0,16		kg/t
	CO <sub>2</sub>	168,5		kg/t
<b>Energy</b>	Steam	1757		kWh/t
	Process	656		kWh/t
<b>Waste</b>	Reuse	30,0		BDkg/t
	Landfill	3,2		BDkg/t

#### Mill Environmental Objectives 2011

- Energy - reduce energy consumption at Arctic Paper Munkedals AB through energy saving measures.
- Waste treatment - reduce, by education, the environmental influence from our waste treatment.
- Pollutions - verify possible spreading of ground pollutions.
- Environmental risks - improve the damming of process water.

<sup>1</sup> BAT = Best available technique according IPPC.

<sup>2</sup> All figures expressed per ton of paper

<sup>3</sup> Effluent water from waste water treatment plant

For more information about environmental objectives see EMAS environmental report

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**ARCTIC PAPER**