

Product	ZANDERS Spectral 100, 200g/m²
Company	M-real
Site	Zanders Reflex, Germany

Information gathered from **01.01.2006** to **31.12.2006**
 Date of issue **24.05.2007**

Environmental product declaration for paper

Environmental Management

Certified environmental management system (at the mill since) **ISO 14001 (2003)**

Environmental aspects of wood procurement Certified PEFC Chain of Custody at the mill since 2006.

Company management systems ensure traceability of the origin of 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.

Water	COD	20.2	kg/t
	AOX	0.103	kg/t
	N_{Tot}	0.276	kg/t
	P_{Tot}	0.053	kg/t

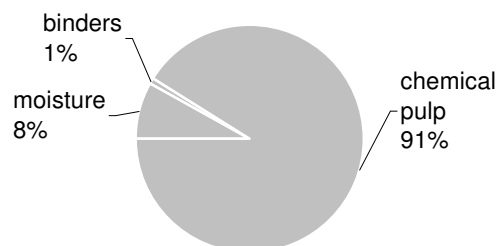
Air	SO₂	1.64	kg/t
	NO_x	1.97	kg/t
	CO₂ (fossil)	652	kg/t

Solid waste landfilled **23** BDkg/t

Purchased electricity consumption

/ tonne of final product **980** kWh

Product composition



More information

Contact person **Claudia Zähringer**

Address **M-real Zanders GmbH**

D-52349 Düren

Phone **+49 (2421) 497 373**

E-mail **Claudia.Zaehringer@m-real.com**

Product **ZANDERS Spectral 100, 200 g/m²**

Mill info

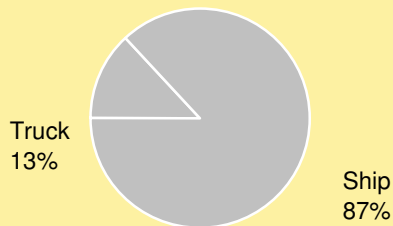
ZANDERS Spectral is a complete range of coloured tracing papers made from coloured pulp. It is suitable for almost all printing and finishing processes. The main applications are in the graphic art sector as a creative element in brochures, company reports and other corporate and product communication material. ZANDERS Spectral is also ideal for envelopes and can be used for direct mail.

M-real Zanders GmbH, Reflex Mill is located in Düren, Germany, 50 km west of Cologne. The capacity of the mill is over 100,000 t/a. The mill is a non-integrated mill and the waste water is treated in a municipal off-site effluent plant. The treated water is released to the river Rur. There is a gas fired power plant which operates on combined heat and power generation.

Transport

RAW MATERIAL - FIBRES

Transport modes



Average transport distance

Wood	N/A km
Pulp	6,477 km
Recovered paper	km

(Info. gathered from 01.01.2006 to 31.12.2006)

PRODUCTS

The main market for ZANDERS Spectral is central Europe. The company's policy is to maximise transport by ship or rail where practical and cost effective. Therefore Zanders has invested in two logistic centres – one for the Reflex Mill – to switch transport from road to rail. To overseas markets, the finished papers are transported in containers by rail and ship, to customers in central and Eastern Europe by road and rail.

Handling after use

PRODUCT

The preferred handling of the product is recycling, but the product is also biodegradable as compost or can be incinerated to produce energy.

PACKAGING

The packaging plastic and paperboard can be recycled or incinerated for energy production. Wooden pallets are best utilised as fuel in energy production.

Product ZANDERS Spectral 100, 200g/m²

Origin of wood

It is M-real's policy to use wood which comes from sustainably managed commercial forests. The aim is to continuously increase the proportion of certified wood entering the supply chain. The table shows the origin of all wood raw material in the product, by country, as total share of certified wood supplied from those countries with a certified chain of custody, and as share of certified wood by certification scheme. .

The figures include all wood used in product (Info. gathered from 01.01.2006 to 31.12.2006)

Countries of wood origin	Share of total wood supply (%)	Share of certified wood* (%)	Share of certified wood* by certification systems (%)
Sweden	78	33	28 FSC / 5 PEFC
Lithuania	8		
Estonia	8		
Germany	2	2	2 PEFC
Denmark	2		
Latvia	2		

* The figures indicate the average share of certified wood supplied with certified chain of custody.

The total share of wood from certified forests in this product is 26 %. By reporting this figure, M-real does not guarantee that the product can be sold as certified according to any scheme. For information on labelled products please contact M-real's local sales office.