



PRODUCT MetsäBoard Classic WKL 135–175 g/m²

COMPANY Metsä Board Corporation

MILL Kemi mill

Information gathered from 1.1.2024

to 31.12.2024

Date of issue 31.3.2025

PRODUCT ENVIRONMENTAL DATASHEET FOR PAPERBOARD

ENVIRONMENTAL MANAGEMENT

Certified environmental management system at the mill since 1995

Company systems ensure traceability of the origin of wood: YES ☒ NO ☐ 100% RECOVERED PAPER ☐

Certified environmental management system for wood procurement and board and pulp production according to ISO 14001. Certified PEFC Chain of Custody (PEFC/02-31-92) and FSC® Chain of Custody (FSC-C001580). Certificates are available at [Metsä Board's web page](#).

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 pulp and paperboard production.

Water	COD	4.5	kg/tonne
	AOX	0.076	kg/tonne
	NTot	0.105	kg/tonne
	PTot	0.005	kg/tonne

Air	SO ₂	0.06	kg/tonne
	NO _x	1.5	kg/tonne
	CO ₂ (fossil)*	26	kg/tonne

*This figure does not represent a full scope 1, 2 & 3 of CO₂ footprint and neither of carbon offsetting emissions.

Solid waste landfilled 0.85 BDkg/tonne

Purchased electricity consumption*

/tonne of final product 605 kWh

* Any CO₂ fossil emissions related to the purchased electricity are not reported.

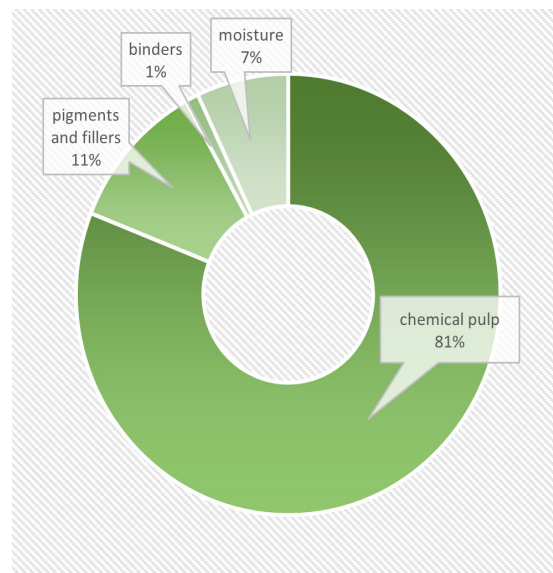
MORE INFORMATION

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PRODUCT COMPOSITION



This product contains biogenic carbon, equivalent to 1485 kg of CO₂ per tonne of product.

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SUPPLEMENTARY SHEETS TO PAPER PROFILE

MetsäBoard Classic WKL 135–175 g/m²

Metsä Board Kemi mill, Finland

MetsäBoard Classic WKL is a coated white-top kraftliner specially designed for high-quality in-line and conventional flexo post-printing. Providing excellent productivity from start to finish, MetsäBoard Classic WKL is the ideal solution for corrugated retail packaging. It enables fast ink-drying times, even without dryers, resulting in high print quality in flexo post printing. It also works well in water-based digital printing. MetsäBoard Classic WKL produces high colour density and gloss, and is safe for food packaging. Its consistent quality ensures smooth and cost-efficient convertibility.

1. MILL INFORMATION

Metsä Board Kemi mill produces linerboard. The annual capacity of the mill is 465,000 tonnes of coated and uncoated white top liner for high-quality corrugated retail and consumer packaging.

The main markets are Europe and North America. Vessels are used to transport the products from either Ajos port in Kemi or ports in Southern Finland to terminals in Europe and North America. Transport to Ajos port, to Southern Finland and to the Nordic market is serviced by truck.

Metsä Board Kemi mill is situated in the town of Kemi in northern Finland, on an island in the River Kemijoki's delta as it runs into the Gulf of Bothnia. At the same site, there is also a Metsä Fibre's pulp mill that provides water, pulp, energy, wastewater treatment and landfill services for Metsä Board Kemi. Metsä Board only uses Metsä Group's own pulps in its production. [More information at our website](#)

2. MAIN ENVIRONMENTAL TARGETS AND PERFORMANCE

Metsä Board's sustainability targets are based on the company's strategy, the materiality assessment of sustainability matters and Metsä Group's sustainability targets, which were updated in 2025. With our 2030 sustainability targets, we are committed to enhancing natural biodiversity, mitigating climate change, and promoting the sustainable use of natural resources. Metsä Board is aiming for 100% fossil-free production (i.e. zero fossil-based Scope 1 and 2 CO2 emissions) and products, as well as more efficient energy and water use by 2030.

In 2024, 89% of the energy used by Metsä Board was fossil-free, and 98.9% of raw materials and packaging materials were fossil-free. Metsä Board's energy efficiency improved by 0.9 % (target+10% by 2030), and the use of process water per product tonne decreased by 11% (target -35% by 2030) from the 2018 level.

In 2024, Metsä Board achieved excellent scores in several ESG ratings, including CDP A List in climate change, water security, and forests; and the highest Platinum level and high scores in each of the four themes assessed by EcoVadis. These and other ratings provide important information of Metsä Board's sustainability ambition to our stakeholders and help us improve our operations further.

Read more in [Metsä Board's Annual review 2024](#), [Metsä Board Sustainability Review 2024](#), and [sustainability website](#).

3. MANAGEMENT SYSTEMS

Metsä Board continuously develops the efficiency of its production units to improve resource efficiency and environmental performance. Metsä Board follows up on its environmental impact, for example, in the form of greenhouse gas emissions, energy consumption, water use and waste generation. One of Metsä Board's key duties is to guarantee that all its operations are sustainable and that all its products are safe for people and the environment.

All Metsä Board mills producing paperboard have the ISO 22000 certified food safety system, and the mills producing paperboard for food contact, i.e. Kemi, Kyro, Simpele, Äänekoski and Husum board mills, are also certified according to FSSC 22000 food safety system. The FSSC 22000 provides a framework for effectively managing a company's food safety responsibilities and is recognised by the Global Food Safety Initiative (GFSI).

Metsä Board's environmental management follows Metsä Group's Environmental Policy and complies with the ISO 14001 standard. The main principles of the Environmental Policy are environmental responsibility, sustainable forestry, and requiring responsibility in operations also from our suppliers. All production units have the ISO 9001 quality, ISO 14001 environmental, ISO 50001 energy, and ISO 45001 occupational health and safety management systems.

Metsä Board mills are certified according to PEFC and FSC Chain of Custody forest certification systems, which enable full traceability in the wood supply chain. The wood origins of Metsä Board's products are externally verified. Raw materials and services are purchased from suppliers who sign and follow Metsä Group's Supplier Code of Conduct.

MANAGEMENT SYSTEMS	
ISO 9001 Quality Management	Kiwa No. 6396-09
ISO 14001 Environmental Management	Kiwa No. 6397-08
ISO 22000 Food Safety Management	Kiwa No. 6398-08
FSSC 22000 Food Safety System Certification	Kiwa No. 10581-07
ISO 50001 Energy Management	Kiwa No. 6399-11
ISO 45001 Occupational Health and Safety Management	Kiwa No. 6400-08
PEFC Chain of Custody	No. INS-PEFC-COC-205328
FSC Chain of Custody	No. INS-COC-100100/ INS-CW-100100

SUPPLEMENTARY SHEETS TO PAPER PROFILE

MetsäBoard Classic WKL 135–175 g/m²

Metsä Board Kemi mill, Finland

4. ORIGIN OF WOOD

Regardless of the country of origin or whether it comes from certified or controlled forests, Metsä Group always knows the origin of the wood it uses, ensures its legality and takes measures to prevent the risk of unacceptable practices in the supply chain.

Metsä Group uses wood that comes from sustainably managed forests. Metsä Group's wood procurement is handled by the company's principal owner, Metsäliitto Cooperative. Metsäliitto Cooperative holds PEFC Chain of Custody, FSC Chain of Custody and controlled wood certificates. Metsäliitto Cooperative's wood origin tracing system is included in its certified ISO 9001 quality and 14001 environmental management systems.

Metsä Board uses only fully traceable wood for its products. In 2024, the share of certified wood Metsä Board used was 92%, while worldwide, only 10-11% of all forests are certified, and the remaining 8% came from controlled forest origins. The certification claim is shown on the delivery documents of each product.

Wood information of the product (gathered from 1.1.2024 to 31.12.2024).

COUNTRY OF WOOD ORIGIN	SHARE OF TOTAL WOOD SUPPLY	NAME OF SPECIES
Finland	89%	spruce (<i>Picea abies</i>), pine (<i>Pinus sylvestris</i>), birch (<i>Betula spp.</i>), aspen (<i>Populus tremula</i>)
Sweden	7%	spruce (<i>Picea abies</i>), pine (<i>Pinus sylvestris</i>), birch (<i>Betula spp.</i>), aspen (<i>Populus tremula</i>)
Estonia	2%	spruce (<i>Picea abies</i>), pine (<i>Pinus sylvestris</i>), birch (<i>Betula spp.</i>), aspen (<i>Populus tremula</i>)
Latvia	2%	spruce (<i>Picea abies</i>), pine (<i>Pinus sylvestris</i>), birch (<i>Betula spp.</i>), aspen (<i>Populus tremula</i>)
Lithuania	<1%	spruce (<i>Picea abies</i>), pine (<i>Pinus sylvestris</i>), birch (<i>Betula spp.</i>), aspen (<i>Populus tremula</i>)
Poland	<1%	spruce (<i>Picea abies</i>), pine (<i>Pinus sylvestris</i>)
Norway	<1%	spruce (<i>Picea abies</i>), pine (<i>Pinus sylvestris</i>), birch (<i>Betula spp.</i>), aspen (<i>Populus tremula</i>)
Germany	<1%	spruce (<i>Picea abies</i>), pine (<i>Pinus sylvestris</i>)

This product fulfils the requirements of EU Timber Regulation and UK Timber Regulation as well as US Lacey Act, and all Metsä Board paperboards will be in compliance with EU Deforestation Free Regulation when its implementation starts. More about Metsä Group's wood procurement: metsagroup.com

5. HANDLING AFTER USE

PRODUCT

The recommended handling after use is recycling but it can also be used for incineration. Preferred handling depends on local conditions and regulations. The product also has both industrial as well as home composting certification.

PRODUCT PACKAGING MATERIAL

The packaging material can be recycled or incinerated to produce energy. Preferred handling depends on local conditions and regulations.

6. ENVIRONMENTAL PARAMETERS

COD = CHEMICAL OXYGEN DEMAND

The amount of oxygen consumed in complete chemical oxidation of matter present in waste water.

AOX = ADSORBABLE ORGANIC HALOGEN COMPOUNDS

Reported as the total amount of chlorine bound to organic compounds in waste water.

N_{TOT} = TOTAL AMOUNT OF ORGANIC AND INORGANIC NITROGEN

P_{TOT} = TOTAL AMOUNT OF ORGANIC AND INORGANIC PHOSPHORUS

SO₂ = SULPHUR DIOXIDE

Total sulphur emissions to air from burning sulphur-containing fuels and from chemical pulp processing, expressed as SO₂.

NO_x = NITROGEN OXIDES (NO AND NO₂)

Nitrogen oxides emissions to air from combustion processes, expressed as NO₂.

CO₂ = FOSSIL CARBON DIOXIDE

In the context of papermaking, fossil carbon dioxide is generated from the combustion of fossil fuels during the production of pulp and paper.

BIOGENIC CARBON

The amount of biomass based carbon stored in the product, expressed as CO₂.

SOLID WASTE = NON-LIQUID WASTE LANDFILLED ON SITE AND/OR ELSEWHERE

Organic and inorganic waste materials are defined, calculated and declared as completely dry matter.

PURCHASED ELECTRICITY CONSUMPTION

Amount of purchased electricity per produced tonne of product.
Note: Emissions of SO₂, NO_x and CO₂ resulting from external electricity suppliers are not included.



Metsä Board is a producer of lightweight and high-quality folding boxboards, food service boards and white kraftliners. The pure fresh fibres we use in our products are a safe, renewable and recyclable resource, that can be traced back to northern forests. We aim to have completely fossil free mills and raw materials by the end of 2030. We promote a culture of diversity, equality and inclusion.

Metsä Board is listed on the Nasdaq Helsinki. In 2024 our sales totalled EUR 1.9 billion, and we have around 2,300 employees. Metsä Board is part of Metsä Group, whose parent company Metsäliitto Cooperative is owned by over 90,000 Finnish forest owners. The sales of the whole Metsä Group were EUR 5.7 billion.

METSÄ BOARD CORPORATION

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