paper profile

Metsä

VERIFIED BY kiwa

PRODUCT MetsäBoard Natural FSB Cup 185-310 g/m²

COMPANY Metsä Board Corporation

MILL Husum mill

Information gathered from 1.1.2022 to 31.12.2022 Date of issue 6.4.2023

ENVIRONMENTAL PRODUCT DECLARATION FOR PAPERBOARD

ENVIRONMENTAL MANAGEMENT

Certified environmental management system at the mill since 1997

Company systems ensure traceability of the origin of wood: YES X 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.

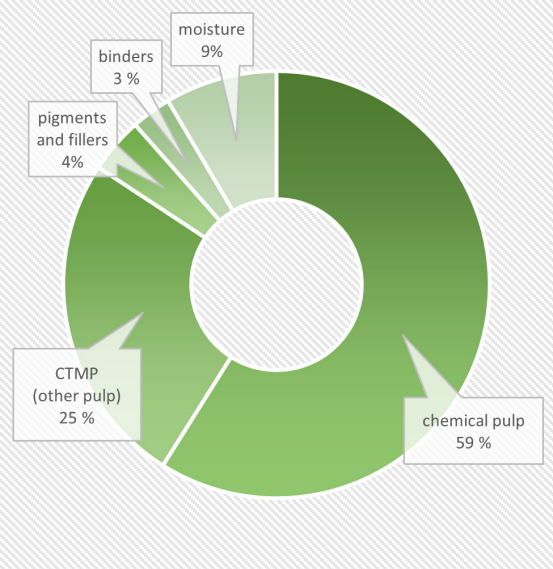
ENVIRONMENTAL PARAMETERS

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	8.5	kg/tonne
	AOX	0.048	kg/tonne
	NTot	0.110	kg/tonne
	PTot	0.018	kg/tonne
Air	SO2	0.32	kg/tonne
	NOx	0.89	kg/tonne
	CO2 (fossil)	55	kg/tonne
Solid waste landfilled		0.004	BDkg/tonne

Purchased electricity consumption /tonne of final product 977 kWh

PRODUCT COMPOSITION



This product contains biomass carbon, equivalent to 1545 kg of CO2 per tonne of product.

MORE INFORMATION

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SUPPLEMENTARY SHEETS TO PAPER PROFILE

MetsäBoard Natural FSB Cup 185-310 g/m^2

Metsä Board Husum mill, Sweden

MetsäBoard Natural FSB Cup is an uncoated food service board which is suitable for offset and flexo printing. MetsäBoard Natural FSB Cup gives a more natural look and feel. It offers reliable performance on the press and good formability into hot and cold cups. It is hard-sized to prevent edge penetration by moisture and ideal for ice cream cups and containers. MetsäBoard Natural FSB Cup is available uncoated or with a PE-extrusion coating for additional barrier properties.

1. MILL INFORMATION

Metsä Board Husum produces market pulp, uncoated and coated paperboard and uncoated linerboard. The main markets are Europe and North America. Ships are used to transport the products to the terminals in Germany, UK and North America. The products are then forwarded by rail or road, depending on the distance and location of the customer. The products are transported to the Nordic markets mostly by truck, but train is also used.

Metsä Board Husum is located in the village of Husum, on the east coast of Sweden, about 600 km north of Stockholm. It is an integrated mill with a production capacity of 650,000 tonnes of paperboard and linerboard and 730,000 tonnes of chemical pulp. Metsä Board only uses Metsä Group's own pulps in its production. The mill is surrounded by forests and agricultural land. The treated effluent is directed after careful purification to the Baltic Sea. More information at our website

2. MAIN ENVIRONMENTAL TARGETS AND PERFORMANCE

Metsä Board's sustainability targets are based on the company's strategy, Metsä Group's sustainability targets and materiality analysis, which was updated in 2022. With our sustainability 2030 targets, we are committed to safeguarding natural biodiversity, mitigating climate change, reducing emissions 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 CO_2 emissions) and products, and more efficient energy and water use by the end of 2030.

In 2022, 87% of the energy used by Metsä Board was fossil free, and over 99% of raw and packaging materials came from fossil free sources. Metsä Board's energy efficiency increased by 2.7% (target minimum +10% by the end of 2030), and the use of process water per product tonne decreased by 12% (target -35% by the end of 2030) from 2018.

In 2022, Metsä Board again achieved a place on the global non-profit CDP's A List in tackling climate change and using water resources and forests sustainably – all three CDP's environmental assessments. Metsä Board also achieved the highest level rating, Platinum, in EcoVadis' Sustainability Assessment and for the first time, a full 100/100 score in the environmental section of the assessment. This result places Metsä Board among the top 1% of the companies assessed by EcoVadis in the paper, paperboard and packaging industry.

Read more in Metsä Board's Annual and Sustainability Report 2022 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 its environmental impact, for example, in the form of greenhouse gas emissions, energy and water consumption as well as 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 both people and the environment.

All Metsä Board mills have ISO 22000 and in addition to that all mills producing paperboard for food end-use, Simpele, Kyro, Kemi, Äänekoski and Husum board mills, are also certified according to FSSC 22000 (Food Safety System Certification). 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 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 ISO 9001 quality, ISO 14001 environmental and ISO 50001 energy management systems as well as the ISO 45001 Occupational Health and Safety management system.

Metsä Board mills are certified according to PEFC and FSC CoC Forest certification systems which enable full traceability in the wood supply chain and the wood origins of its products are externally verified. Raw materials and services are purchased from suppliers signing and following Metsä Group's Supplier Code of Conduct.

MANAGEMENT SYSTEMS	
ISO 9001 Quality	RISE No. 5568
ISO 14001 Environmental Management	RISE No. 5568 M
ISO 22000 Food Safety Management	ControlCert No. 2064-22-08401-3
FSSC 22000 Food Safety System Certification	ControlCert No. 2064-22-08401-2
ISO 50001 Energy Management	RISE No. C001960
ISO 45001 Occupational Health and Safety Management	RISE No. C001961
PEFC Chain of Custody	INS-PEFC-COC-205328
FSC Chain of Custody	INS-COC-100100

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SUPPLEMENTARY SHEETS TO PAPER PROFILE

MetsäBoard Natural FSB Cup 185-310 g/m^2

Metsä Board Husum mill, Sweden

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 and 14001 quality and environmental management systems.

Metsä Board uses only fully traceable wood for its products. In 2022, the share of certified wood Metsä Board used was 83% whilst worldwide only some 10% of all the forests are certified. The certification claim is shown on delivery documents of each product.

Wood information of the product (gathered from 1.1.2022 to 31.12.2022). Please note that wood deliveries from Russia were suspended in March 2022.

COUNTRY OF WOOD ORIGIN	SHARE OF TOTAL WOOD SUPPLY	NAME OF SPECIES
Sweden	58%	spruce (*Picea abies*), pine (*Pinus sylvestris*), birch (*Betula spp.*), aspen (*Populus tremula*)
Finland	26%	spruce (*Picea abies*), pine (*Pinus sylvestris*), birch (*Betula spp.*), aspen (*Populus tremula*)
Latvia	8%	spruce (*Picea abies*), pine (*Pinus sylvestris*), birch (*Betula spp.*), aspen (*Populus tremula*)
Estonia	7%	spruce (*Picea abies*), pine (*Pinus sylvestris*), birch (*Betula spp.*), aspen (*Populus tremula*)
Russia (Leningrad)	<1%	birch (*Betula spp.*), aspen (*Populus tremula*)
Lithuania	<1%	spruce (*Picea abies*), pine (*Pinus sylvestris*), birch (*Betula spp.*), aspen (*Populus tremula*)

This product fulfils the requirements of EU Timber Regulation and UK Timber Regulation as well as US Lacey Act. More about Metsä Group's wood procurement: metsagroup.com

5. HANDLING AFTER USE

PRODUCT
Recommended handling after use is recycling but it can also be used for incineration. Preferred handling depends on local conditions and regulations.

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

SO_2 = SULPHUR DIOXIDE
Total sulphur emissions to air from burning sulphur-containing fuels and from chemical pulp processing, expressed as SO_2.

NO_X = NITROGEN OXIDES (NO AND NO_2)
Nitrogen oxides emissions to air from combustion processes, expressed as NO_2.

CO_2 = 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 CO_2.

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 SO_2, NO_x and CO_2 resulting from external electricity suppliers are not included.

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Metsä Group is leading the way in advancing the bioeconomy. We invest in growth, bioproduct development and a fossil free future. The raw material for our products is renewable wood from sustainably managed northern forests. We focus on the growth sectors of the forest industry: wood supply and forest services, wood products, pulp, fresh fibre paperboards, as well as tissue and greaseproof papers.

Metsä Group's annual sales amount to approximately EUR 7 billion, and we have around 9,500 employees in around 30 countries. Our international Group has its roots in the Finnish forests: our parent company is Metsäliitto Cooperative which is owned by over 90,000 forest owners.

Metsä Board is a leading European producer of premium fresh fibre paperboards. We focus on lightweight and high-quality folding boxboards, food service boards and white kraftliners. The pure fresh fibres we use in our products are a renewable and recyclable resource, that can be traced back to sustainably managed northern forests. We are a forerunner in sustainability, and we aim to have completely fossil free mills and raw materials by the end of 2030.

Together with our customers we develop innovative packaging solutions to create better consumer experiences with less environmental impact. In 2022 our sales totalled EUR 2.5 billion, and we have around 2,250 employees. Metsä Board, part of Metsä Group, is listed on the Nasdaq Helsinki.

METSÄ BOARD CORPORATION
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