

■ Product  
**Neostar Gloss**

■ Company  
**Moorim P&P  
Ulsan mill**

\* Information gathered from  
Jan. 2022 ~ Dec. 2022

## Environmental product declaration for paper

Certified environmental management system at the mill : **ISO 14001**

Company system ensure traceability of the origin of wood

☒ YES ☐ NO ☐ 100% recovered paper

**Mill has certified FSC Forest Management(FSC® - C161318), FSC Chain of Custody(FSC® - C018671), PEFC Chain of Custody(PEFC™/43-31-007) in place. Certified paper based on request and availability.**

+ Other certified management systems

**KFCC (Korea Forest certification scheme), FSSC 22000(Food safety), ISO 9001(Quality management), ISO 45001(Health and safety management), EVE Vegan (Vegan certificate), Low Carbon Certification(Korea)**

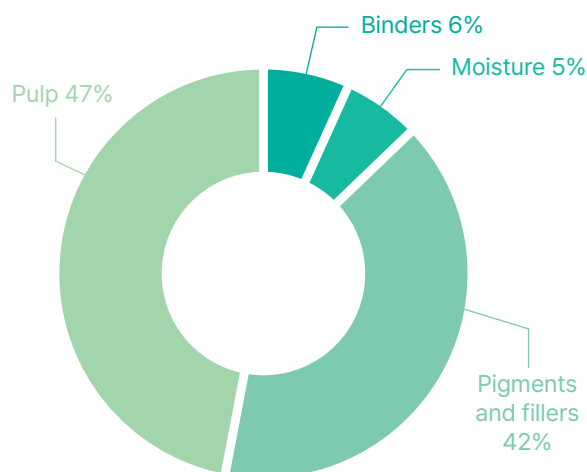
## Environmental Data

| Category         | Air(kg/ton) |       |       | Water(kg/ton) |       |       | Waste<br>landfilled<br>(kg/ton) | Purchased electricity<br>consumption<br>(kWh) |
|------------------|-------------|-------|-------|---------------|-------|-------|---------------------------------|-----------------------------------------------|
|                  | NOx         | SOx   | PM    | SS            | BOD   | TOC   |                                 |                                               |
| <b>Emissions</b> | 0.518       | 0.047 | 0.006 | 0.234         | 0.057 | 1.094 | 0.105                           | 646                                           |

The above 'product total' data is calculated based on total mill emission and total mill production

Purchased electricity consumption of 'product total' data is calculated by dividing total purchased electricity consumption by total mill paper production

## Product Composition



This product contains biomass carbon,  
equivalent to **656** CO<sub>2</sub> per ton of product

## More information

Please contact for futher details

**Tony Lee**

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**<https://www.moorim.co.kr:13002/eng>**

## Product Neostar Gloss

## Company Moorim P&P Ulsan mill

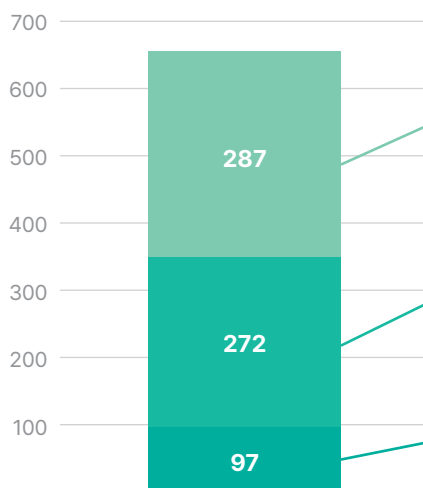
\* Information gathered from  
Aug. 2020 ~ Jul. 2021

## Carbon footprint

- The carbon footprint of the product Neostar Gloss produced at Moorim P&P is calculated based on the Environmental Product Declaration (EPD) scheme by Korea's Ministry of Environment based on ISO 14025 (Environmental labels and declarations-Type III environmental declaration-Principles and procedures)
- The data used in the calculation are based on annual production of the product Neostar Gloss between August 2020 ~ July 2021 (figures refer only to emissions of fossil CO<sub>2</sub>)
- Data is presented in two ways; Net Sequestration of biomass carbon and scope 1~3

| Net sequestration of biomass carbon                                  | Fossil CO <sub>2</sub><br>(kg/ton of paper) |
|----------------------------------------------------------------------|---------------------------------------------|
| 1. GHG emissions from pulp and paper production                      | 228                                         |
| 2. GHG emissions associated with producing virgin or recovered fibre | 30                                          |
| 3. GHG emissions associated with producing other raw materials       | 103                                         |
| 4. GHG emissions associated with purchased electricity and steam     | 272                                         |
| 5. Transport-related GHG emissions (excl. delivery to customer)      | 23                                          |
| <b>Total fossil CO<sub>2</sub> emissions</b>                         | <b>656</b>                                  |

## GHG emissions by Scopes (kg fossil CO<sub>2</sub> per ton of paper)



### Scope 3

Indirect emissions from manufacturing of raw materials (pulp, pigments, fillers and chemicals used >10 kg per tonne of paper) and raw materials' transport to the paper mill.

### Scope 2

Indirect emissions from the generation of purchased energy for paper production. (electricity, steam, heating and cooling)

### Scope 1

Direct emissions from paper production. (paper machines and mill processes)

■ Product  
**Neostar Matt**

■ Company  
**Moorim P&P  
Ulsan mill**

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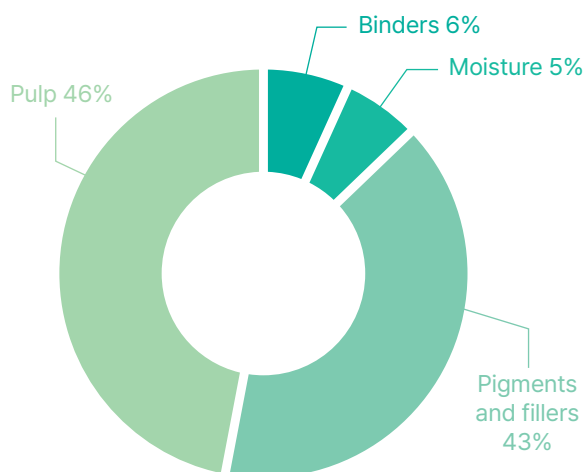
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## Product Neostar Matt

## Company Moorim P&P Ulsan mill

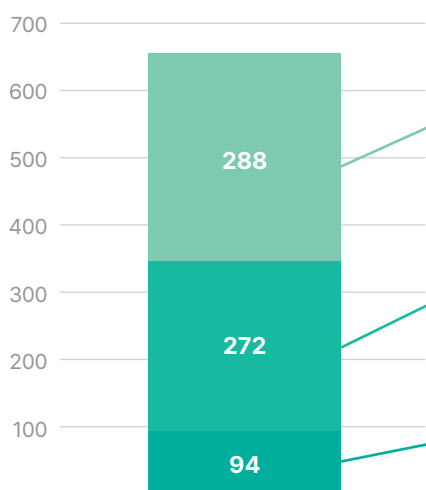
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