

Technical Information

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Himoloc MJ270C

Product for paper and paperboard manufacturing

DESCRIPTION

Ply-bond agent in the paper and paperboard application.

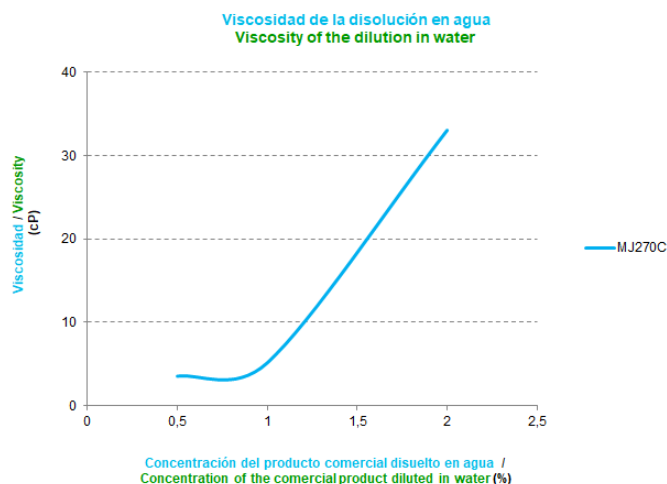
The product is free of organic solvents, surfactants and volatile organic compounds (VOCs).

Its main ingredients are: polymer, salts and water.

CHARACTERISTICS

Type of product	: Water dispersion cationic polymer
Appearance	: White milky liquid
Ionic character	: Cationic
Odor	: Salty odor
Density	: 1.2 g/cm ³
pH	: 3 – 5
Viscosity	: ≤ 1500 cP
Molecular weight	: Very high
Shelf life	: We recommend not keeping the product for more than 9 months.

Note: The parameters indicated here are not necessarily the specifications of the product. These will be agreed with each customer and will be part of the contract that must be respected for each batch supplied.



APPLICATION

- The solution of MJ270C in water for low polymer concentrations (1-2%) is turbid and has low viscosity that facilitates the mixing with the starch suspension and subsequent sprayed application.
- Static mixer is recommended for the preparation of MJ270C solution in water prior its addition to the starch slurry preparation tank.
- Below, you can find an example where mixtures are tested in different proportions of the product with cationic starch:

Slurry concentration	Ratio cationic starch: MJ270C	Viscosity
4% CS + 0,25% MJ270C	94:6	4 cP
4% CS + 0,5% MJ270C	89: 11	4,5 cP
3% CS + 1% MJ270C	75:25	8,5 cP
2% CS + 0,3% MJ270C	87:13	4 cP
4% Cationic Starch	100: 0	3 cP

*CS: Cationic Starch.

* It is recommended to make these mixtures and measurements with the specific starch for each application.

*It is recommended not to exceed 10 cps of viscosity for the cationic starch slurry and MJ270C to facilitate its spraying, although this will depend on each specific system and must be valued by the customer.

- For each 1 Kg of MJ270C we can replace 8 to 10 Kg of Cationic Starch up to 50% Starch Reduction.

Consult with our technical staff in case of any doubt.

BENEFITS

The following treatments are recommended:

- Cationic starch reduction up to 50%, providing economic savings and reducing the COD in the system.
- Sinergic effect between cationic starch and MJ270C.
- It does not cause the emission of Volatile Organic Compounds (VOCs).

STORAGE AND DISTRIBUTION

- The product should be kept in a covered place, the container tightly closed, protected from sunlight and within the temperature range recommended in Section 7 of the Safety Data Sheet.
- Once the container is open, avoid contamination with any other water based product and/or with strong bases. Check the Material Safety Data Sheet.
- For bulk product avoid metal tanks. Plastic materials are recommended (polypropylene, polyethylene...).
- There is a great variety of containers. Check with our Customer Service in order to choose the most convenient one.

REGULATORY

Consult our technical staff in case of any doubt.

The product abides by the next regulations:

- FDA – 21 CFR 176.170 (a) (5) – and 21 CFR 176.180 (b) (1) for paper and paperboard in contact with food.
- BfR - Recommendation XXXVI: Paper and board for food contact - B: Production aids - III: Retention agents.
- GB9685- Hygienic Standards for Uses of Additives in food containers and packaging materials.
- Complies with the criteria established by COMMISSION DECISION (EU) 2019/70 of 11 January 2019 establishing the EU Ecolabel criteria for graphic paper and the EU Ecolabel criteria for tissue paper and tissue paper products.
- Complies with Nordic Ecolabel criteria established in the Chemical Module - Paper Product (version 3.1, 05 October 2020 - 31 December 2025)