



CALINHIB

ANTISCALANT

CALINHIB is formulated with environmentally friendly ingredients in order to inhibit scale deposition of calcium, magnesium, and barium carbonate, sulphates and oxalates in the Pulp and Paper Making Process. This exceptional product offers pulp and paper mills an improvement to traditional scale inhibitors based on the following reasons:

Chelation: Ability of a compound to form a stable, water-soluble complex with a metal ion to render it unavailable for further reaction.

Threshold Effect: Ability of a compound to modify the crystal structure of micro crystals to prevent threshold deposition.

Dispersion: Ability of a compound to coat particles and impart negative charges on the surface of the particles such that they repel one another and remain suspended in solution.

Corrosion Protection: Ability of a compound to coat the metal surface and render it safe from irreversible electrochemical reactions, which cause the metal surface to corrode.

APPLICATION

CALINHIB has various applications in the Pulp and Paper Industry. It can be applied to the digester to prevent scale formation in the heaters and screens; it can also be used in the bleach plant to prevent build up of scales on the washers and the piping. Other application is in the recaust plant in the green liquor lines to prevent the build up of pirssonite.

Based on your particular need, your **CONSTANT** representative will make the dosage recommendations. Typically the dosage varies from 0.05 - 0.25 kg/admt.

Information contained in this literature is believed to be accurate and is offered in good faith for the benefit of the Consumer. The Company, however, cannot assume any liability or risk involved in the use of its chemical products since the conditions of use are beyond our control.

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PHYSICAL CHARACTERISTICS

Density @ 25° C	1.195 g/mL
Approximate volume/Kg	0.84 L
pH	5.70
Appearance	Light Amber Liquid

PACKAGING AND HANDLING

CALINHIB is packed in 205 L drums, 1000 L totes or can be shipped in tankers or rail cars as bulk product.

Observe all safety precautions shown on the label and in the MSDS when handling the product.

BENEFITS

There are many benefits of using **CALINHIB** in a pulp mill, some of these are listed below:

- ✓ Increased production due to less scaling in the heaters, top separator basket and screens.
- ✓ Lower heater cleaning cost.
- ✓ Less kappa number variation, therefore lower bleaching cost and consistently good quality pulp.
- ✓ Lower steam consumption in the digester heaters.
- ✓ Smoother operation in the winter months when frozen chips are fed to the digester.
- ✓ Alleviates scaling problem in bleach plants that run diffusion washers by keeping the extraction screens clean, thus lower chemical consumption and lower bleaching cost.
- ✓ Prevents scale deposits in bleach plant piping and washers, thus production is not impacted.
- ✓ Adding **CALINHIB** in the green liquor lines prevents pirssonite formation.

PRECAUTIONS

In case of eye or skin contact, immediately rinse with abundant water for at least 15 minutes and obtain medical attention. While handling **CALINHIB**, wear rubber gloves and goggles.