

Specialty Chemical Technologies for Chemical Pulp Production

Our pulp product portfolio has grown rapidly in recent years responding to pulp mills' need to find solutions to increasing demands on the market. Our chemistry meets increased expectations to improve pulp line runnability and final pulp quality.

BIM Antifoam (AF)

- pulp defoamer/drainage technology

BIM Kemi is a leading company in drainage/defoaming technology. We have always concentrated on offering the latest, most efficient and economical defoamer for our customers' needs.

BIM Kemi delivers different Antifoam (AF) applications, such as silicone emulsions, oil- and alcohol blends, for different customer needs:

- Brown stock washing (BSW)
- Evaporation
- Wood barking application
- Bleaching plant
- Effluent application
- Drying machine

BIM Antifoam (AF) increases washing yield, pulp quality and chemical recovery as well as decreases foaming, bleaching chemical usage, water usage, and energy need.

In our development, we have concentrated intensively on reducing the risk of silicone carry over, improving process cleaning and eliminating paper spottings. In our process, we have always concentrated on quality consistency, manufacturing cost yield and green energy with the target to offer our customers cost reduction in use.

BIM ORGANIC PROGRAMME

BIM Antipitch (AP)

- dispersing agents for organic pitch control

BIM Kemi has over 30 years of experience in solving customer pitch problems with our own developed technology:

- For BSW, bleaching and drying machine
- In acid, neutral, and alkaline conditions
- Gives cleaner process and pulp
- Lowers extractive amount in pulp
- Improves process runnability

BIM Fibre (FP)

- cooking and ODL (EP) improvements

We have 20 years of experience in surface technology used in cooking and replacement of AQ:

- Improve cooking liquor penetration into wood chips for more uniform cooking
- H-factor reduction (alkali / steam / time)
- Extractives load reduction and stabilisation
- Reject amount reduction, gives possibility to increase Kappa target
- Improved pulp physical properties
- Reduced evaporation load
- Yield increase
- Reduced bleaching chemicals consumption
- Improve BSW

Our applications can be combined with other BIM concepts for synergy effects, for example our BIM FP, AP and CR programme to achieve talc-free production.

BIM INORGANIC PROGRAMME

BIM Scale Inhibition (SI)

- dispersing agents for inorganic scale

The idea of functionality is to avoid the formation of metal crystals scale. Our programme is available for:

- Barium sulphate
- Calcium oxalate
- Calcium carbonate
- Calcium sulphate
- Calcium phosphonate

BIM Scale Removal (SC)

- cleaning chemicals for scale removal

Continuous treatment to remove inorganic deposits such as barium sulphate, calcium oxalate and carbonates.

BIM Metal Sequestering (MS)

Programme to avoid harmful metal (Mn, Fe, Cu) reactions with pulp and bleaching chemicals:

- Green solution to replace EDTA and DTPA
- Phosphor free
- Replaces $MgSO_4$ in oxygen delignification and peroxide bleaching.