

XIAMETER[®] ACP-3073 Antifoam Compound

Effective foam-control agent and process aid for kraft pulp-washing

Features and Benefits

- Improved drainage in pulp-washing process applications
- Low use levels compared to mineral-oil-based defoamers
- Excellent foam-knockdown effect and persistency over time
- Versatility for formulating aqueous dispersions and emulsions
- Food contact as specified in the food regulatory profile

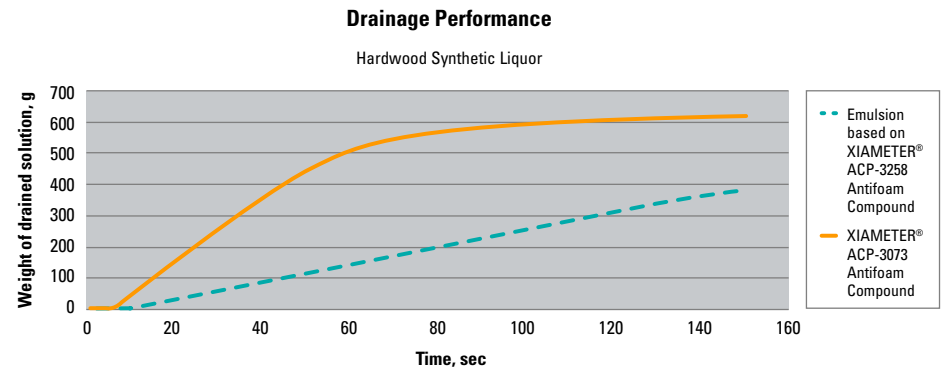
Silicone-based antifoams developed by Dow Corning are among leading choices for use in pulp-washing processes designed for high production rates with reduced water usage. Compared to organic defoaming options, silicones can be more effective at lower use levels, longer-lasting, less reactive, and more stable at various process pH levels and temperatures.

One of the key challenges silicones can meet involves controlling foam during kraft brown-stock-washing (BSW) processes. Kraft or sulfate pulping remains the most common chemical process used to produce bleached or unbleached high-quality pulp for paper mills.

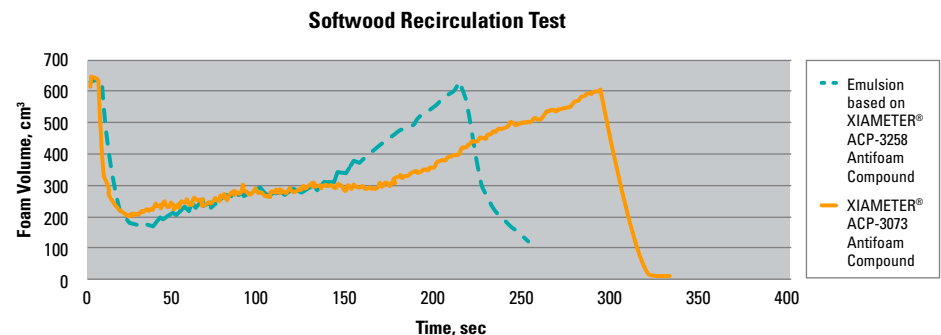
XIAMETER[®] ACP-3073 Antifoam Compound from Dow Corning is a 100% active silicone compound, designed to give users an effective solution for such aggressive foaming environments.

Antifoam Process Performance

Drainage Testing: With better drainage performance than a reference antifoam solution, XIAMETER ACP-3073 Antifoam Compound can help improve pulp-washing efficiency by reducing the amount of entrapped air in the pulp mat.



Knockdown/Persistency Testing: Compared to a reference solution, XIAMETER ACP-3073 Antifoam Compound shows immediate foam reduction (knockdown) capability, as well as good persistency in preventing further foam formation over time.



Prototype Formulation: XIAMETER ACP-3073 Antifoam Compound can be used at low dosage levels, as shown in the following prototype formulation used in antifoam process performance tests:

1. Load XIAMETER ACP-3073 Antifoam Compound (20%).
2. Add surfactants (4%).
3. Mix.
4. Add biocide and thickener in water-based solution (31%) in multiple steps with high-speed mixing.
5. Add remaining water (45%).

Typical Properties

NOTE: These values are not intended for use in preparing specifications. Contact your XIAMETER® sales representative prior to writing specifications on this product.

Test	Value
Appearance	White to pale yellow viscous liquid
Viscosity*	20,000 to 50,000 mPa·s

*Carri-Med, cone and plate, 6 cm. Shear rate = 2 sec⁻¹.

Learn More

The XIAMETER® brand from Dow Corning offers an extensive line of efficient, high-quality products to meet defoaming challenges in pulp and paper processing. Available worldwide at market-based pricing, our wide range of antifoam emulsions, compounds and performance modifiers is available online and through our network of XIAMETER® distributors. Technical support is available as needed.

For more information about our materials and capabilities, visit www.xiameter.com.

Images: AV22375, AV22376

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