



Go Beyond Conventional Surfactant Limits



Amphi[®] bio-based surfactants enhance wetting, dispersion, and stability in complex formulation systems

THE DIFFERENCE

What Makes Amphi[®] Different

Not a replacement. A performance additive.

- Enhances existing surfactant systems
- Improves performance at lower loadings
- Multifunctional across wetting, emulsification & dispersion
- Designed for real-world formulation constraints

Why Formulators Use Amphi[®]

- Improve performance without full reformulation
- Solve competing formulation constraints
- Increase efficiency across complex systems

Where It's Used

I&I Cleaning • Coatings • Water Treatment • Agrochemical

From Microbe to Molecule

The Locus platform converts biological processes into functional chemistry:



Strain Selection

Elite microbes identified



Fermentation

Controlled, consistent output



Multifunctional

Defined molecule performance



Scaled Manufacturing

Reliable U.S. supply

NEXT STEP

See how Amphi[®] performs in wax removal systems

Flip the page for the application case.



CASE STUDY

Wax Removal & Cleaning Systems

Amphi® as performance cleaner in food packaging manufacturing

THE CHALLENGE

Wax buildup reduced cleaning efficiency and system performance

- Wax residue adhered to surfaces and equipment
- Partial removal lead to redeposition
- High chemical loads used with inconsistent results
- Performance broke down across complex systems

THE AMPHI® RESULTS

↑ **80%**
Faster Cleaning

A food packaging mill used Amphi® to reduce cleaning time from five days to one

What Changed



Reduced interfacial tension

Amphi mobilizes wax from coated surfaces



Improved surface contact

Amphi wets and penetrates residue layers



Breakdowns wax structures

Amphi lifts and fragments buildup

What Amphi® Delivers

More Effective Wax Removal

- Less equipment down time
- Cleaner surfaces & less residual buildup

Improved Dispersion

- Keeps wax suspended
- Reduces redeposition

Higher Efficiency

- Lower chemical demand
- More consistent performance

EXPECTED OUTCOMES

What to expect in your system

- Improved wax removal performance
- Reduced chemical usage potential
- More stable cleaning systems
- Consistent results across conditions



START WITH YOUR SYSTEM

Evaluate Amphi® in your formulation

We work directly with formulators to assess performance in real applications.

