SILFOAM® eco: FOAM CONTROL BASED ON RENEWABLE RAW MATERIALS

With SILFOAM® eco, WACKER presents the world's first silicone-based antifoam agents for household care and cleaning products that are produced using 100% biomethanol derived from renewable resources instead of fossil raw materials. SILFOAM® eco thus offers a decisive competitive advantage in a market hallmarked by growing sustainability demands on the part of policy-makers and consumers alike.

100% for More Sustainability

SILFOAM® eco products are chemically identical to standard SILFOAM® product grades, which have proven their ability to regulate foam and optimize products and processes for many years. The only difference is that, for the eco products, 100% of fossil raw materials are replaced by renewable resources (biomethanol) using a mass balance method.

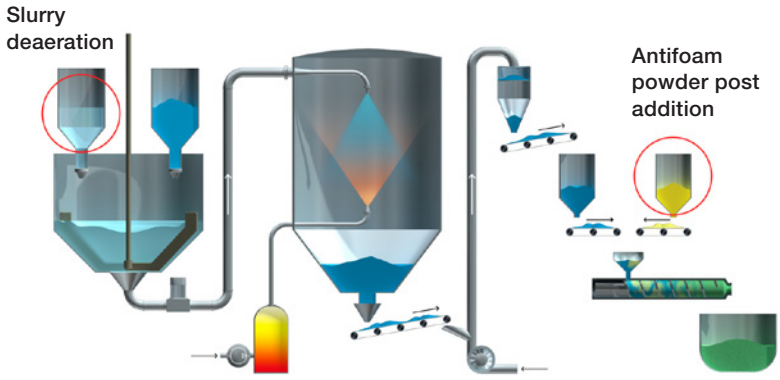
Antifoam Additives for Every Application

The SILFOAM® eco product range includes the right antifoam additive for a wide range of applications. Here are two examples:
Antifoam compounds SILFOAM® eco SC 132 and SILFOAM® eco SC 1132 can be used as processing aids in the production of laundry detergent powder (slurry deaeration).
Antifoam emulsions SILFOAM® eco SRE and SILFOAM® eco SE 39 are suitable for liquid cleaners and detergents – both for foam control during use and in the manufacturing process.

Readily Interchangeable

Since all SILFOAM® eco grades have the same set of properties as standard SILFOAM® products, you can readily replace them in existing formulations and applications. The end products are chemically identical, but customers receive a REDcert² certificate to certify the use of renewable raw materials.

Use of SILFOAM® eco Products in Detergent Manufacturing Process



SILFOAM® eco Grades for Household Care and Cleaning Products

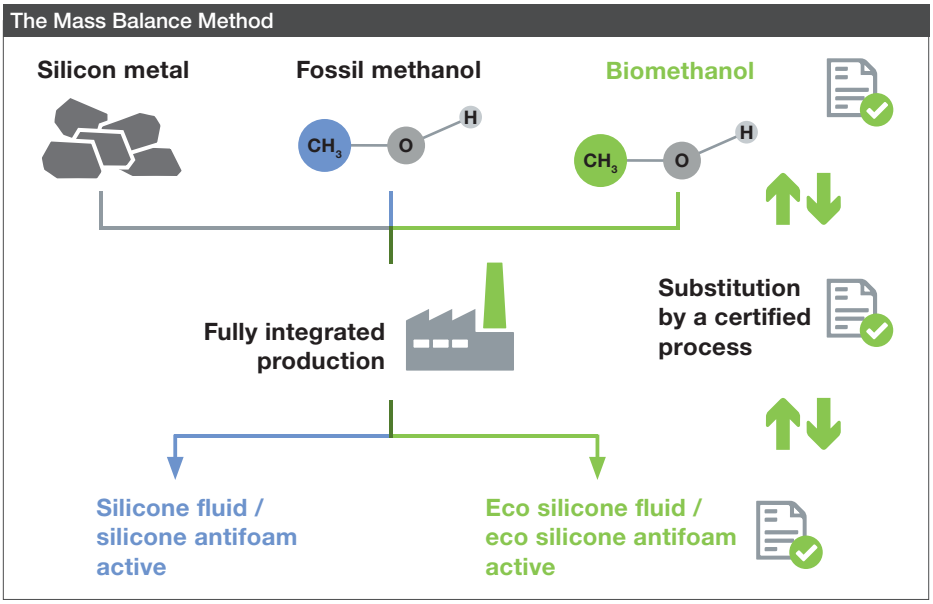
Product	Property	Applications
SILFOAM® eco Antifoam Compounds		
SILFOAM® eco SC 132 SILFOAM® eco SC 1132	Effective against a wide range of surfactants	Spray-on technique, slurry deaeration, liquid gel cleaners
SILFOAM® eco Antifoam Emulsions		
SILFOAM® eco SRE SILFOAM® eco SE 39	Rich in emulsifier yet relatively low-viscosity, easy-to-meter antifoam emulsions	Slurry deaeration, all-purpose cleaners, floor polishes, softeners
SILFOAM® eco Antifoam Powders		
SILFOAM® eco SP 7960	Very good, lasting foam-control effect	Laundry detergent powders, dishwasher detergents

SILFOAM® eco: MANUFACTURED USING MASS BALANCE METHOD

At WACKER, we are committed to continuously reducing the use of fossil raw materials in our products. For example by replacing them with identical materials derived from renewable sources. By employing the mass balance method, we can offer an alternative product line of antifoam agents with SILFOAM® eco that, mathematically, contain no fossil raw materials whatsoever.

For silicone products, methanol is a good starting point for substituting fossil resources. Chemically, it makes no difference whether methanol derived from fossil raw materials or renewable sources is used in silicone production – both yield the same products. The mass balance method takes advantage of that. If methanol from both plant- and fossil-based sources is used within an integrated production system, the portion of raw materials derived from renewable sources can be determined and explicitly allocated to individual sales products.

Certified Method



In the mass balance method, methanol from both plant- and fossil-based sources is used within an integrated production system. The portion of raw materials derived from renewable sources can be determined and explicitly allocated to individual sales products.

This mass balance approach is used in the manufacture of silicone antifoam agents SILFOAM® eco SC 132, SILFOAM® eco SC 1132, SILFOAM® eco SRE, SILFOAM® eco SE 39 and SILFOAM® eco SP 7960. Technology service provider TÜV Nord has certified that the five eco antifoam agents meet the criteria of the international REDcert² standard. The volumes of methanol needed for manufacturing undergo regular audits as part of an annual recertification process. This approach ensures that the eco product grades are based entirely on methanol derived from plant sources for example sugar beet, straw or grass cuttings.

REDcert² certified by TÜV NORD

SILFOAM® eco products are certified by TÜV Nord in accordance with the REDcert² standard.

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