

# 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:

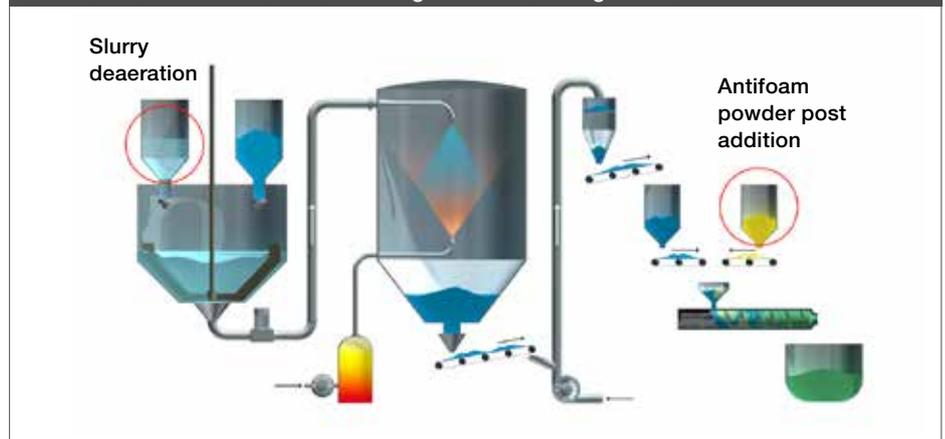
Antifoam compounds SILFOAM® eco SC 132 and SILFOAM® eco SC 1132 can be used as processing aids in the production of laundry detergent powder (slurry deaeration).

Antifoam powder SILFOAM® eco SP 7960 is suitable for foam control during use in consumer products like automatic dish-washing tabs or powdered laundry detergents.

### 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 REDcert<sup>2</sup> 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

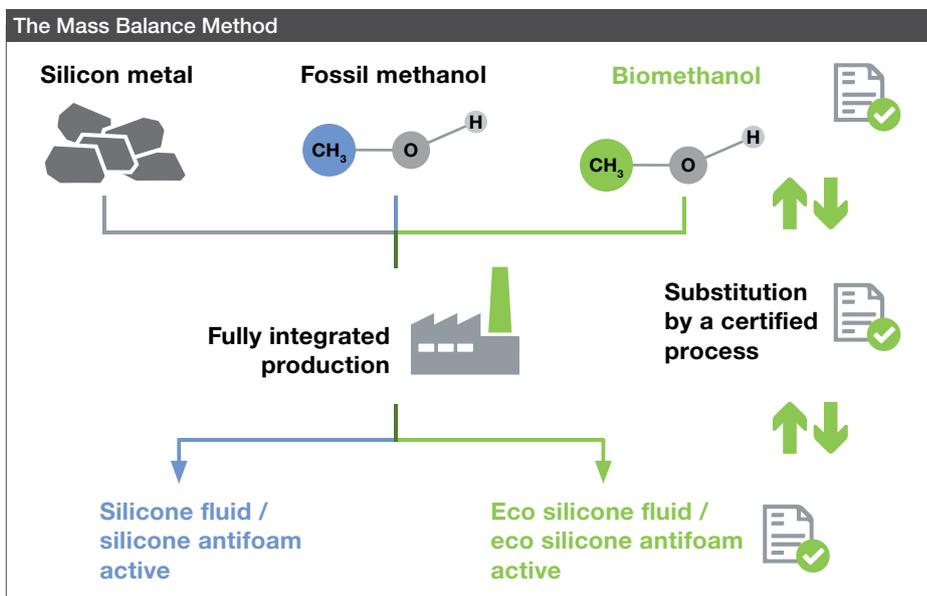
Product	Property	Applications
<b>SILFOAM® eco Antifoam Compounds</b>		
SILFOAM® eco SC 132	Effective against a wide range of surfactants	Spray-on technique, slurry deaeration, liquid gel cleaners
SILFOAM® eco SC 1132		
<b>SILFOAM® eco Antifoam Powders</b>		
SILFOAM® eco SP 7960	Very good, lasting foam-control effect	Laundry detergent powders, dishwasher detergents

# SILFOAM<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> eco SC 132, SILFOAM<sup>®</sup> eco SC 1132 and SILFOAM<sup>®</sup> eco SP 7960. Technology service provider TÜV Nord has certified that the five eco antifoam agents meet the criteria of the international REDcert<sup>2</sup> 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.



SILFOAM<sup>®</sup> eco products are certified by TÜV Nord in accordance with the REDcert<sup>2</sup> standard.

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The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.



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