

## Esca™ NVD Antifoam

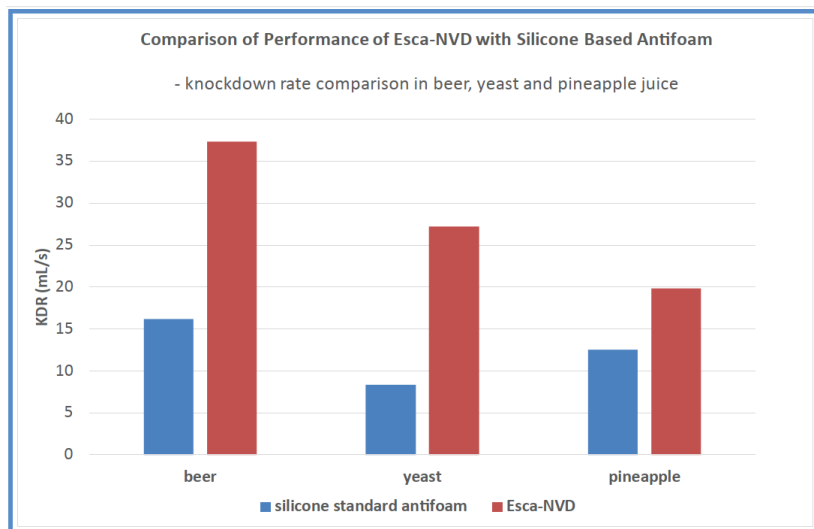
### Product Description

- Concentrated, easily dispersible foam control agent that gives outstanding foam control in demanding applications
- Contains only E-numbered ingredients
- Vegetable-based chemistry
- Designed for yeast and starch processing and other food processing applications
- Certified Kosher by the Manchester Beth Din and approved by the Halal Food Authority
- Emulsifies in water and aqueous media with gentle agitation to give optimum particle size and antifoam performance. Emulsions can be retained up to 48 hours.

### Typical Physical Properties

Appearance	Clear to slightly hazy pale yellow liquid
Viscosity at 25 °C, cP	40-150
Specific Gravity at 25 °C	0.9
Recommended Diluent	Water
Activity, %	100
Shelf Life	12 months from date of manufacture if stored at below 32 °C

Typical properties are average data and are not to be used as or to develop specifications.



Test data; actual results may vary. Test data should not be relied upon to create product specifications.

### Storage and Shelf Life

The product should be stored below 32 °C. Some settling of the contents may occur on prolonged storage. The product can be easily reconstituted by simple stirring. Shelf life of the unopened container is 12 months from date of manufacture.

### Potential Applications

Esca NVD antifoam has been proven to provide excellent antifoaming properties in most fermentation applications and many varied food processing applications. It controls foam generation enabling manufacturing processes to operate at full capacity without the risk of overflow. It reduces build up of starch and other materials in the foam layer, which can have a detrimental effect on production.

### General Considerations for Use

Depending upon the application, usage levels of between 100 - 500 ppm are recommended. As part of the evaluation process, it is recommended to trial a range of inclusion levels to obtain optimal performance. For best foam control, Esca NVD antifoam should be added prior to foam generation. Additional antifoam can be added during processing if greater control is required. In fermentation, once the processing cycle is complete, any residual antifoam can be removed by filtration along with other insoluble materials. Esca NVD antifoam can be used equally well as a concentrate or diluted in a suitable carrier (such as water), or as a dispersion with other raw materials. Antifoam performance is not compromised by autoclave sterilization.

### Compliance

Basildon Chemical Co. Ltd. (a Momentive Group Company) operates a HACCP certified quality and product manufacturing system. Our certificate can be downloaded from our website. Esca NVD antifoam is approved Kosher Parev by the Manchester Beth Din and certified Halal by the Halal Food Authority. It has been formulated for use in a variety of indirect food applications as a processing aid.

The product components are all E-numbered. They comply with current EU as well as one or more of FDA CFR 21 regulations. All of the components are considered to be suitable for most food processing applications provided any specified concentration limits of the title 21 subparts are adhered to.

We suggest the user consults the relevant food regulations when using any form of antifoam or defoamer to confirm compliance for the intended application. A CAS component list is available.

### Toxicity

The components of Esca NVD antifoam have a very low order of toxicity although prolonged contact with the skin or contact with the eyes may cause some irritation. See the antifoam safety datasheet for more information.

### Technical Service

Our technical and sales staff have considerable experience with the use of silicone products in a wide variety of industries and the benefit of this experience is freely available to all our customers.

### Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement, or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

### Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment, if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

### Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.



## Customer Service Centers

For additional information, please contact our Customer Service Team

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