



MUNZING TECHNICAL INFORMATION | GLOBAL

MAGRABAR® Food Defoamers

Effective Foam Control Solutions for Food & Beverage Processing

Foam in Food: What Causes Foam?

Food Composition

- Starch & Sugars
- Proteins
- Fatty Acids

Process Environment

- Agitation
- Shear & Time
- Temperature & pH Effects

Benefits of Using Defoamers in Food Processing

Improve Plant Safety and Housekeeping

- Less foam overflow reduces potential for microbiological contamination
- Maintain dry and clean floors

Improve Final Product Quality

- Prevent entrained air in final product

Improve Production Efficiency

- Increase output and yield without investment
- Precise metering and filling
- Improve pumping and mixing

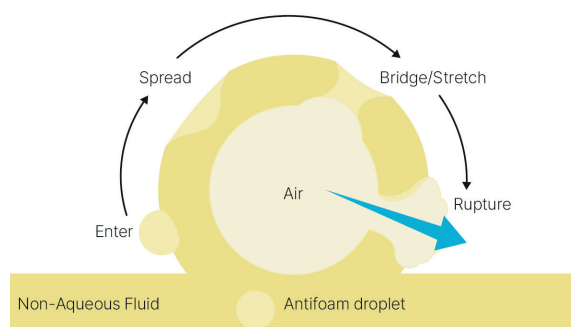


Case Study

Performance Comparison

How Defoamers Work

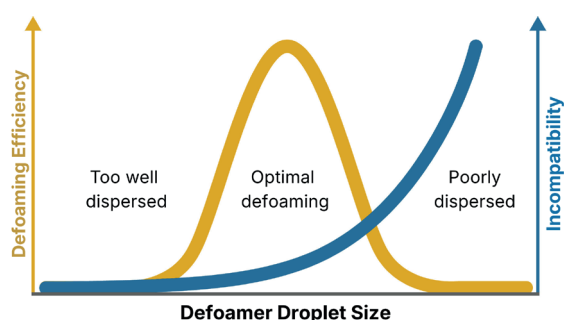
Defoamer must have a lower surface tension than the liquid in order to enter, spread and eventually break a foam bubble.



MAGRABAR® Product Features

MAGRABAR® products are derived from a range of materials and formulations offering flexibility to optimize cost-in-use for each application.

Providing exceptional initial and long-lasting defoaming performance across a wide range of applications.



Steps for Choosing the Right Defoamer

1. How Will the Product be Used?

- **Antifoam** – Prevents upstream foam formation
- **Defoamer** – Breaks existing foam in the process

2. What Kind of Delivery Mechanism is Needed?

- **Liquid** – Suitable for liquid food and beverage processing and finished products where foam occurs
- **Solid** – Liquid defoamer on a solid carrier – ideal for powder blending and solid food applications

3. Are Special Regulatory Clearances Needed?

- **Kosher or Halal** – All MAGRABAR® products are Kosher & Halal
- **Non-GMO** – Suitable for foods not derived from genetically modified organisms
- **Organic** – Antifoams and defoamers for organic food and processing
- **Whole Foods Compliant**

4. Is There a Preference on Product Chemistry?

- **Vegetable Oil**
- **Silicone**
- **Polyol**
- **Mono- & Diglycerides**
- **Mineral Oil**

5. Is There a Specific Performance Feature Needed?

- **Persistent Foam Control**
- **Fast Foam Knockdown**
- **Air Release for High Viscosity**
- **Dosage Control**

