the only truth that brings the present into the future

Special Silicone Solutions for your Industry
The Only Truth that Brings the Present into the Future

Our business approach aim is to supply high quality products timely with optimum prices with a wide range of products under own trade name series.

OxoChem which develops and optimizes the innovative silicone products according to the industry feedbacks and market needs, provides full technical service to all our valuable customers for all OxoChem’ s products.

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We instill and Sustain Confidence in Our Customers

At OxoChem;

We are working to preserve a culture wherein behaviors and decisions at all levels are in line with OxoChem’s foundational values and business principles.

We make endeavors to improve ourselves, we support innovation and we do our work passionately. Through our technical infrastructure we create value and enable our customers to purchase products that are most suitable for their portfolios, therefore fulfilling their needs.

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We are the Pioneers who Re-define Our Lost Values

We create value and grab opportunities by uniting our commercial reliability with our world-wide and unique supplier access. With our favorable prices and flexibility, we always strive to become your solution partner, beyond being a supplier.

*Our purpose is to become your most flexible and value-adding partner who provides the most creative solutions.*

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OxoChem serves its wide range of products to the companies from different industries. Being safe to environment and health, our products can be applied in many fields, such as textile & nonwoven, construction, agriculture, polyurethane, food processing, paint & coatings, auto care, elastomer, metalworking lubricants, pulp & paper, detergents and rubber applications.

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Furthermore we have been able to have many decades of experience developing and manufacturing silicone based antifoams solutions, mould release agents, textile softeners, organic silicone, mixing additives, surface active chemicals, polymer dispersion agents, water repellents, macro silicone emulsions and other additives to the different industries.

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Our Consultancy Service
Our Consultancy Service

OxoChem is an advanced company that provides consulting services for clients worldwide.

Through a deep knowledge of market forces, the changing competitive landscape, and customer needs, OxoChem helps clients grow and invest successfully. Leading chemicals firms around the globe benefit from the depth and breadth of OxoChem’s industry expertise.

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Our Consultancy Service

We have over 10 years of experience working in all segments of the chemical industry, including:

- Special Chemicals
- Polyester Poliol Manufacturing
- Agricultural Chemicals
- Release agents
- Macro, Micro and Hydrophilic Silicone
- Textile Chemicals
- Water Repellents
- Auto Care Chemicals
- Hygiene Chemicals
- Basic and Intermediate chemicals

We make the chemicals industry better by creating sustainable business value. We are dedicated to maintaining our position as the world’s leaders.

✓ Please contact us at info@oxochem.com for additional information.

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All Aspects of Silicone & Carbon Chemistry
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Agenda

• Industries/ Markets
  – Mould Release Agents
  – Antifoams & Defoamers
  – Agricultural Chemicals
  – Auto & Shoe Care
  – Textile & Nonwoven
  – Construction
  – Special Chemicals
  – Silanes
  – Water Treatment Chemicals
  – Industrial Chemicals

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Antifoams & Defoamers

✓ Foam can be generated by either mechanical agitation or chemically influenced mechanism.

✓ Foam is a dispersion of a gas in a liquid
  – Created by agitation
  – Stabilized by surface active agents
What is Foam?

✓ Foam is generated and created in many applications:

- Textile: washing fibers & fabrics
- Paint & Coatings
- Polyurethane
- Pulp & Paper: pulp fibres washing
- Oil & Gas: Gas washing and sweetening
- Home Care: Clothes/ dishes washing
- Food: Food washing
- Metal: Metal Finishing
- Consumer products (bottle filling)
- Agriculture: process, bottling, dilution
What is Foam Control?

✓ **DE-foaming** = knock-down of existing foam

✓ **ANTI-foaming** = prevention of foam formation

✓ **De-aeration** = coalescence of (micro)bubbles
What is Antifoam & Defoamer?

✓ Antifoam could be silicone, mineral or organic based.

✓ Defoamers are used to either control foam formation or eliminate foam from forming during the intended process.

✓ When the formation of foam is prevented, the chemical is usually referred to as antifoam. Most often, the terms defoamer and antifoam are used interchangeably.
Antifoam Selection Criteria

- Laboratory Test
  - Shaking Test
  - Recirculation Test
  - Washing Machine
  - Sparging, high speed blender
- Dilution and dilution stability
- Bulk Stability

- Experience
- High shear
- Alkali/ acid Stability
- Freeze/ Thaw stability
- Thermal stability
- Effect of water hardness/ softness

✓ OxoChem will perform for you the right test and helps you to select the right antifoam for your system.
Factors and Antifoam Selection

- The nature of the foaming system (aqueous/non aqueous or both). Different surfactants will generate different types of foam and foam stability.
- The surfactants can be non-ionic, ionic, cationic or amphoteric.
- Foam type: micro or macro bubbles
- Temperature of foaming system
- pH
- Antifoam effect (immediate, persistent, transcent)
Antifoam Requirements

– Should not deposit on the heat exchanger
– Should control foam at low concentrations
– Easily dispersible in water
– Should have good emulsion stability in the presence of salts
– Rapid knockdown & Long durability
– Good de-aeration
– Low viscosity (ease of pumping & dosing)
– High activity (low dosing = minimal residues)
– Performant in non-ionic, cationic & anionic surfactants
– Effective at low/ high temperatures (Cloud Point effect)
– Effective at low/ high pH
Antifoams & Defoamers

✓ We do have a wide range of products from 100% silicone polymer as well as ready to use silicone antifoam compounds, silicone antifoam concentrates, silicone antifoam emulsions and non-silicone antifoam agents.

✓ We provide a wide range of both silicone based and non-silicone based antifoams & defoamers to the industries as following;

- Textile & Leather
- Paint & Coatings
- Detergents
- Pulp & Paper
- Agriculture
- Polyurethane
- Food Processing
- Oil & Gas
- Water Treatment
- Antifoams for All Industries
Antifoams & Defoamers

✓ OxoChem develops and optimizes the innovative silicone antifoam products according to the industry feedbacks and market needs as following:

- **Silicone antifoam compounds**: 100% active non-aqueous, highly efficient but difficult to use in aqueous system.
- **Silicone antifoam concentrates**: High concentration of antifoam compound but water dispersible.
- **Silicone antifoam emulsions**: Ready to use, water based silicone antifoams.
- **Non Silicone antifoam agents**: Ready to use antifoam agents without silicone.

✓ We provide special silicone antifoams & defoamers for your industry as following;
✓ **Textile & Leather**

✓ **Lavida® TSE 720** silicone antifoam emulsion is a medium viscosity, which offers excellent foam control as well as excellent compatibility in a variety of surfactant concentrates and foaming systems, has been mainly designed for textile applications such as: sizing, scouring, printing and finishing. This product provides excellent foam control performance durability and highly stable under different conditions (high temperature, high shear and wide range of pH). It is effective in destabilizing macro and micro foam and very effective at very low dosage levels.

✓ **Lavida® N-GPA** which is a hydrocarbon & oil based antifoaming agent, has been specially developed for all industries. It is effective in the presence of many surfactants, readily dispersible and has very good long term persistency. Since it is self-dispersible, it can be safely used as a defoamer in jet applications where there is a risk of having stain.
✓ **Paint & Coatings**

✓ **Lavida® PSE 620 WC** which is has been mainly designed for paint & coatings applications, offers excellent foam control as well as excellent compatibility in a variety of surfactant concentrates and foaming systems. It is effective in destabilizing macro and micro foam and very effective at very low dosage levels.

✓ **Lavida® N-GPA** which is a hydrocarbon & oil based antifoaming agent, has been specially developed for all industries. It is effective in the presence of many surfactants, readily dispersible and has very good long term persistency.

✓ **Lavida® PNS 2080 SC** which is specially designed for solvent based paints, can be recommended for UV coatings as well as for conventional paints and It is very effective in destabilizing both macro and micro foam.
✓ **Detergents**
  ✓ **Lavida® DSE 530** silicone antifoam emulsion, which has been mainly designed for detergents application, has excellent durability and highly stable under different conditions (high temperature, high shear and wide range of pH). This product provides excellent foam control performance (both knockdown and durability) in all foaming systems, and it is also very cost effective and may be easily diluted with water at any time.
  ✓ **Lavida® N-GPA** which is a hydrocarbon & oil based antifoaming agent, has been specially developed for all industries. It is effective in the presence of many surfactants, readily dispersible and has very good long term persistency.
  ✓ **Lavida® Powder** powdered antifoam which has been developed to control the foam of powder laundry detergents generated during the washing process.
✓ **Pulp & Paper**

✓ **Lavida® PP AFC 830** silicone antifoam compound, which has been designed for pulp & paper, provides excellent defoaming properties and good durability in alkaline and acidic media in a pH range of 2 to 13. This product is very effective at very low dosage levels.

✓ **Lavida® PSE 330** silicone antifoam emulsion, which has been mainly designed for pulp & paper, provides excellent foam control performance (both knockdown and durability) in all foaming systems at high temperatures. This product is also very cost effective and may be easily diluted with water at any time.

✓ **Lavida® PMG 3080** which is a water emulsion of aliphatic-hydroxy compound, has been designed as both defoamer and deaerator for paper & cellulose industries and can be dilutable with water to any ratio. This product improves overall papermaking process, paper properties, retention and optimal for fiber recovery.

✓ **Lavida® N-GPA** which is a hydrocarbon & oil based antifoaming agent, has been specially developed for all industries. It is effective in the presence of many surfactants, readily dispersible and has very good long term persistency.
Agriculture

✓ **Lavida® ASE 430** silicone antifoam emulsion is very effective in many agricultural applications, as foam control agent for pesticides, during production, packaging and spray tank operations.

✓ **Lavida® ASE 415** silicone antifoam emulsion is a medium viscosity emulsion that can be used in water-based systems, can be added directly in agricultural formulations without pre-dilution and mixed with slow to moderate agitations to ensure a complete and homogenous dispersion.

✓ **Lavida® N-GPA** which is a hydrocarbon & oil based antifoaming agent, has been specially developed for all industries. It is effective in the presence of many surfactants, readily dispersible and has very good long term persistency.
**Food Processing**

- **Lavida® FS 2480** can be used in sugar industry in diffuser device, is also useful as a direct additive for applications such as wash water for the processing of beet sugar and yeast. All ingredients comply with the F.D.A code of Federal regulations.

- **Lavida® FS 1100** can be used in washing process the processing of beet sugar. All ingredients comply with the F.D.A code of Federal regulations.

- **Lavida® FP 1065** which is a water-based, non-silicone antifoam emulsion designed for foam control in aqueous systems where silicone is not desired or tolerable, can be used both washing and cutting process in potatoes industry. All ingredients comply with the F.D.A code of Federal regulations.

- **Lavida® FSE 120** is a 20% antifoam emulsion of polydimethylsiloxane useful for defoaming aqueous systems and may be used in both industrial and food grade applications. All ingredients comply with the F.D.A code of Federal regulations.

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**FDA approved**
Potatoes

Antifoam for washing processing of Potatoes

Antifoam for Cutting

Antifoam for washing processing of beet sugar

Antifoam for Diffuser device

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✓ Water Treatment

✓ **Lavida® WT 630** silicone antifoam emulsion, which has been mainly designed for water treatment industry, provides excellent foam control performance (both knockdown and durability) in all foaming systems at high temperatures. This product is also very cost effective and may be easily diluted with water at any time.

✓ **Lavida® WT 615** is a silicone antifoam emulsion, which can be used for water treatment industry, has good foam knockdown and rapid bubble break. It is effective in destabilizing macro and micro foam and very effective at very low concentration.

✓ **Lavida® WT 6010 FG** is vegetable oil based antifoam agent which can be used for foam control in water treatment industry where silicone is not desired or tolerable. All ingredients comply with the F.D.A code of Federal regulations.

✓ **Lavida® N-GPA** which is a hydrocarbon & oil based antifoaming agent, has been specially developed for all industries. It is effective in the presence of many surfactants, readily dispersible and has very good long term persistency.
✓ **Metalworking Lubricants**

✓ **Lavida® CONZ 890** concentrate silicone emulsion, which has been designed to combine outstanding foam knockdown and durability, can be used general for metalworking lubricants. It is effective in destabilizing macro and micro foam and very effective at very low concentration. This product is very cost effective and may be easily diluted with water at any time.

✓ **Lavida® AuxFoam 725** is an antifoam agent for metalworking fluids and cleaners. It will not interfere with any subsequent painting or plating applications when cleaned properly.

✓ **Lavida® TSE 730** silicone antifoam emulsion, which can be used for metalworking industry, provides excellent foam control performance (both knockdown and durability) in all foaming systems at high temperatures.
✓ **Oil & Gas**
  ✓ **Lavida® OG 710** silicone antifoam emulsion, that is an excellent candidate for controlling foam in amine and glycol dehydration units and excellent in controlling the foam during the absorption or desorption of gases from refinery gases when amines are used to trap CO₂ and H₂S from the petroleum gas.

✓ **Polyurethane**
  ✓ **Lavida® PU AFC 810** silicone antifoam, which has been specifically developed for polyurethane. Its high antifoam activity provides durable foam control during the process. This product has excellent foam knockdown and rapid bubble break.

✓ **Phosphoric Acid & Mining**
  ✓ **Lavida® PAM 100** which has been developed for the production of phosphoric acid, is designed to be used as an antifoam agent as well as a defoamer in extreme acidic environment where the pH is below 1. This product is very effective at very low dosage levels.
Antifoams for All Industries

✓ **Lavida® AFC 800** silicone antifoam compound, which is water-free, has been specifically designed for different industries and its high antifoam activity provides excellent foam control as well as excellent durability and greater compatibility in difficult surfactant systems, such as those rich in solvents and/or electrolytes.

✓ **Lavida® CONZ 890** concentrate silicone emulsion, which has been designed to combine outstanding foam knockdown and durability, can be used general for all industries. This product is very cost effective and can be diluted with water to produce a silicone antifoam emulsion. It is effective in destabilizing macro and micro foam and very effective at very low concentration.

✓ **Lavida® N-GPA** which is a hydrocarbon & oil based antifoaming agent, has been specially developed for all industries. It is effective in the presence of many surfactants, readily dispersible and has very good long term persistency.
Antifoams & Emulsions

- 10% silicone: Lavida WT 610, Lavida ASE 410., etc
- 20% silicone: Lavida TSE 720, Lavida DSE 520., etc
- 30% silicone: Lavida TSE 730, Lavida DSE 530., etc
- Food Grade: Lavida FS 2480, Lavida FS 1100., etc
- 90% silicone: Lavida CONZ 890., etc
- All 100% fluids: Lavida AFC 800., etc
- Non-silicone: Lavida N-GPA.
Time for Change

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