Silicone defoamer compounds

	KORASILON Defoamer ECO 100	KORASILON Defoamer ECF 100	KORASILON Defoamer ECG 100	KORASILON Defoamer FG 100	KORASILON Defoamer 2020	KORASILON Defoamer ECA 20 SF	AF 9000
Product type	Compound	Compound	Compound	Compound	Compound	Compound	Compound
Appearance	Colourless, opaque	Colourless, opaque	Colourless, opaque	Colourless, opaque	Colourless, opaque	Water-clear, transparent	Colourless, opaque
Active content [%]	100	100	100	100	100	100	100
Viscosity at 25 °C, approx. [mPa s]	~ 4,000	~ 1.000	~ 500	~ 2,000	~ 2,000	~ 250	~ 2,000
Density, approx. [g/cm^3]	~ 1	~ 0.99	~ 0.99	~ 0.99	~ 0.100	~ 1	~ 1
Acid and alkali resistance	Good	Good	Good	Good	Good	Very good	Good
Recommended dosage * as starting quantity in preliminary tests, approx. [ppm]	10	10	10	10	10	50	10
Shelf life (months)	12	6	6	12	12	12	24

	KORASILON Defoamer ECO 100	KORASILON Defoamer ECF 100	KORASILON Defoamer ECG 100	KORASILON Defoamer FG 100	KORASILON Defoamer 2020	KORASILON Defoamer ECA 20 SF	AF 9000
Statutory provisions							
Detergents Regulation (EC) No. 648/2004	Yes	Yes	Yes	Yes	Yes	No	Yes
EU regulations (The substances comply with the E-numbers = designation for food additives)	No	No	No	Yes	No	No	No
FDA (Food and Drug Administration) CFR (Code of Federal Regulations)	Yes	Yes	Yes	Yes	No	No	Yes
German Federal Agency for Risk Assessment (BfR, XV) “Silicone” production of consumer goods with indirect food contact	Yes	Yes	Yes	Yes	No	No	Yes
Kosher	No	No	No	Possible if needed	No	No	Yes

*Strong substrate dependence

--> See also recommended dosage in specific application

This information is intended as a guide and should not be used in preparing specifications.

	KORASILON® Defoamer FG 10	KORASILON® Defoamer FG 20	KORASILON® Defoamer FG 30	KORASILON® Defoamer FT 10 N	KORASILON® Defoamer FT 20 N	KORASILON® Defoamer FT 30 N	KORASILON® Defoamer GD	KORASILON® Defoamer GD 20	KORASILON® Defoamer GD 30	KORASILON® Defoamer CFT	KORASILON® Defoamer VP 70	KORASILON® Defoamer VP 90	KORASILON® Defoamer EMA 124	KORASILON® Defoamer EMA 119	AF 9010 E	AF 9020 E	AF 9030 E	SAG 7133
Product type	Emulsion	Emulsion	Emulsion	Emulsion	Emulsion	Emulsion	Emulsion	Emulsion	Emulsion	Emulsion	Solution	Solution	Emulsion	Emulsion	Emulsion	Emulsion	Emulsion	Emulsion
Appearance	White	White	White	White	White	White	White	White	White	White	Colourless	Colourless	Whitish	Whitish	White	White	White	White
Active content, approx. [%]	10	20	30	10	20	30	10	20	30	55	30	10	20	45	10	20	30	12
Solids content, approx. [%]	14–18	27–31	42–46,5	12	24	35	12	23	34	> 62	n. a.	n. a.	n. a.	n. a.	14–18	27–31	42–46,5	n. k.
Viscosity at 25 °C, approx. [mPa s]	~ 1,000	~ 1,000	~ 1,000	~ 1,000	~ 80	~ 500	~ 1,000	~ 500	n.a.	~2,000	~ 150	~ 11	~ 1,000	1,500–2,000	~ 1,000	~ 1,000	~ 600	400–1,000
pH value, approx.	4–5	4–5	4–5	5–8	5–8	5–8	4–8	4–8	4–8	5–8	n.a.	n.a.	Approx. 7	approx. 8	4–5	4–5	4–5	7–8.5
Ionogenity	Non-ionogenic	Non-ionogenic	Non-ionogenic	Non-ionogenic	Non-ionogenic	Non-ionogenic	Non-ionogenic	Non-ionogenic	Non-ionogenic	Non-ionogenic	n.a.	n.a.	Non-ionogenic	Non-ionogenic	Non-ionogenic	Non-ionogenic	Non-ionogenic	Non-ionogenic

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	KORASILON® Defoamer FG 10	KORASILON® Defoamer FG 20	KORASILON® Defoamer FG 30	KORASILON® Defoamer FT 10 N	KORASILON® Defoamer FT 20 N	KORASILON® Defoamer FT 30 N	KORASILON® Defoamer GD	KORASILON® Defoamer GD 20	KORASILON® Defoamer GD 30	KORASILON® Defoamer CFT	KORASILON® Defoamer VP 70	KORASILON® Defoamer VP 90	KORASILON® Defoamer EMA 124	KORASILON® Defoamer EMA 119	AF 9010 E	AF 9020 E	AF 9030 E	SAG 7133
Dispersity	Medium to coarsely dispersed	Medium to coarsely dispersed	Medium to coarsely dispersed	Finely dispersed	Finely dispersed	Finely dispersed	Medium to coarsely dispersed	Medium to coarsely dispersed	Medium to coarsely dispersed	Medium to coarsely dispersed	n.a.	n.a.	Finely to medium dispersed	Finely to medium dispersed	Medium to coarsely dispersed	Medium to coarsely dispersed	Medium to coarsely dispersed	Medium to coarsely dispersed
Dispersibility in water	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Not water soluble	Not water soluble	Good	Good	Satisfactory	Satisfactory	Satisfactory	Good
Recommended dosage * as starting quantity in preliminary tests, approx. [ppm]	30 ppm	30 ppm	30 ppm	50 ppm	50 ppm	50 ppm	50 ppm	50 ppm	50 ppm	50 ppm	25 ppm	25 ppm	100 ppm	100 ppm	30 ppm	30 ppm	30 ppm	50 ppm
Shelf life (months) Storage temperature	6 4-40 °C	6 4-40 °C	6 4-40 °C	6 4-40 °C	6 4-30 °C	6 4-30 °C	6 4-40 °C	6 4-40 °C	6 4-40 °C	6 4-40 °C	12 < 40 °C	12 < 40 °C	12 10-30 °C	12 10-30 °C	24 0-50 °C	24 0-50 °C	24 0-50 °C	15 5-30 °C

*Strong substrate dependence, see also recommended dosage in specific application

Statutory provisions

Detergents Regulation (EC) No. 648/2004	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	No

	KORASILON® Defoamer FG 10	KORASILON® Defoamer FG 20	KORASILON® Defoamer FG 30	KORASILON® Defoamer FT 10 N	KORASILON® Defoamer FT 20 N	KORASILON® Defoamer FT 30 N	KORASILON® Defoamer GD	KORASILON® Defoamer GD 20	KORASILON® Defoamer GD 30	KORASILON® Defoamer CFT	KORASILON® Defoamer VP 70	KORASILON® Defoamer VP 90	KORASILON® Defoamer EMA 124	KORASILON® Defoamer EMA 119	AF 9010 E	AF 9020 E	AF 9030 E	SAG 7133
FDA (Food and Drug Administration) CFR (Code of Federal Regulations)	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No
German Federal Agency for Risk Assessment (BfR, XV) “Silicone” production of consumer goods with indirect food contact	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No
Kosher	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	No

Brief descriptions

Defoamer compounds

KORASILON Defoamer ECO 100
is a 100% defoamer compound, which is mainly suitable for use in non-aqueous, organic media. The main applications are in distillation, in chemical processes as well as in the paint and coatings industry.

KORASILON Defoamer ECF 100
is a 100% defoamer compound system with good system compatibility and long-lasting effect, which has proven particularly useful in non-aqueous media, such as the boiling of linseed oil resins, dispersions of the paint and coatings industry and oil industry.

KORASILON Defoamer ECG 100
is a 100% defoamer compound system with a strong knock-down effect for effective foam control, which has proven particularly useful in non-aqueous media, such as the boiling of linseed oil resins, dispersions of the paint and coatings industry and oil industry.

KORASILON Defoamer FG 100
is a 100% defoamer compound for use in non-aqueous systems, in industrial applications with direct and indirect food contact (FDA and BfR, XV.), e.g. defoamer emulsions, sugar production, frying oils, gas scrubbers, distillation.

KORASILON Defoamer 2020

is a 100% defoamer compound, which is characterised by its use in aqueous, alcohol and oily mixtures with strong defoaming action.

KORASILON Defoamer ECA 20 SF
is a 100% organosiloxane defoamer that does not contain any polydimethylsiloxane. It is very shear stable and due to its chemical structure, low viscosity and preparation it can be used in paints and coatings or other systems as a deaerator.

AF 9000
is a 100% defoamer compound for use in non-aqueous systems, in industrial applications with direct and indirect food contact (FDA and BfR), e.g. defoamer emulsions, sugar production, frying oils, gas scrubbers, distillation.

Defoamer emulsions

KORASILON Defoamer FG 10

is a 10% defoamer emulsion, which has been developed primarily for use with direct and indirect food contact (FDA, BfR, etc.). The emulsion can also be used in other industrial sectors as it meets the requirements, for example, of the Detergents Regulation (EU Directive 648/2004) for use in detergents and cleaning agents.

KORASILON Defoamer FG 20

is a 20% defoamer emulsion, which has been developed primarily for use with direct and indirect food contact (FDA, BfR, etc.). The emulsion can also be used in other industrial sectors as it meets the requirements, for example, of the Detergents Regulation (EU Directive 648/2004) for use in detergents and cleaning agents.

KORASILON Defoamer FG 30

is a 30% defoamer emulsion, which has been developed primarily for use with direct and indirect food contact (FDA, BfR, etc.). The emulsion can also be used in other industrial sectors as it meets the requirements, for example, of the Detergents Regulation (EU Directive 648/2004) for use in detergents and cleaning agents.

KORASILON® Defoamer FT 10 N

is a 10% defoamer emulsion of a modified, high molecular weight dimethylpolysiloxane. The emulsion is intended for foam control in aqueous, predominantly surfactant-containing solutions, e.g. in the dispersion paint, printing ink, adhesive and chemical industries. pH range of acidic to slightly alkaline.

KORASILON Defoamer FT 20 N

is a 20% defoamer emulsion of a modified, high molecular weight dimethylpolysiloxane. The emulsion is intended for foam control in aqueous, predominantly surfactant-containing solutions, e.g. in the dispersion paint, printing ink, adhesive and chemical industries. pH range of acidic to slightly alkaline.

KORASILON Defoamer FT 30 N

is a 30% defoamer emulsion of a modified, high molecular weight dimethylpolysiloxane. The emulsion is intended for foam control in aqueous, predominantly surfactant-containing solutions, e.g. in the dispersion paint, printing ink, adhesive and chemical industries. pH range of acidic to slightly alkaline.

KORASILON Defoamer GD

is a 10% defoamer emulsion of an activated, dimethylpolysiloxane. Because of the rather coarsely dispersed distribution it is not suitable for applications with high demands on shelf life and the formation of a homogeneous liquid film. pH range strongly acidic to strongly alkaline. Applications: Wastewater treatment, chemical industry, gas scrubbing systems, cooling systems, the pigment and substrate grinding.

KORASILON Defoamer GD 20

is a 20% defoamer emulsion of an activated dimethylpolysiloxane. Because of the rather coarsely dispersed distribution it is not suitable for applications with high demands on shelf life and the formation of a homogeneous liquid film. pH range strongly acidic to strongly alkaline. Applications: Wastewater treatment, chemical industry, gas scrubbing systems, cooling systems, the pigment and substrate grinding.

KORASILON Defoamer GD 30

is a 30% defoamer emulsion of an activated dimethylpolysiloxane. Because of the rather coarsely dispersed distribution it is not suitable for applications with high demands on shelf life and the formation of a homogeneous liquid film. pH range strongly acidic to strongly alkaline. Applications: Wastewater treatment, chemical industry, gas scrubbing systems, cooling systems, the pigment and substrate grinding.

KORASILON Defoamer CFT

is a highly concentrated, high-molecular-weight 55% defoamer emulsion, which has been proven itself in foam control in dispersion paints, especially when using synthetic latices based on polyacrylates and styrene-butadiene copolymers. The main applications are surfactant-containing solutions, e.g. in the dispersion paint, printing ink, adhesive and chemical industries.

KORASILON Defoamer VP 70

is a 30% dissolution of high-polymer polydimethylsiloxanes in aromatic / aliphatic hydrocarbon compounds. The defoamer is a foam control agent for the mineral oil industry.

KORASILON Defoamer VP 90

is a 10% solution of high-polymer polydimethylsiloxanes in aromatic / aliphatic hydrocarbon compounds. The defoamer is a foam control agent for the mineral oil industry.

KORASILON Defoamer EMA 124

is a highly effective, 20% silicone-containing defoamer emulsion. The emulsion is particularly suitable for solvent-rich and/or electrolyte-rich systems for foam control.

KORASILON Defoamer EMA 119
is a highly effective, 45% silicone-containing defoamer emulsion. In addition to strong spontaneous foam control, this product also has a strong long-term effect, even at added quantities that are significantly less than half of typical competitive products. In addition, this product can be well diluted with water without any oil separation or lump formation occurring.

AF 9010 (E)
is a 10% defoamer emulsion with application in the industrial and food sector. The emulsion meets the requirements of BfR XV./FDA and Kosher or Parve.

AF 9020 (E)
is a 20% defoamer emulsion with application in the industrial and food sector. The emulsion meets the requirements of BfR XV./FDA and Kosher or Parve.

AF 9030 (E)
is a 30% defoamer emulsion with application in the industrial and food sector. The emulsion meets the requirements of BfR XV./FDA and Kosher or Parve.

SAG 7133
is a 12% defoamer emulsion, which is particularly suitable for application in the field of gas scrubbing.

For more information on product safety and handling, please refer to the safety data sheet.

Our technical advice whether spoken, written or through test trials is given to the best of our knowledge, is to be understood as non-binding in character and in relation to any possible industrial property rights of third parties; it is not a substitute for your, the buyer's, own tests and trials on the products supplied by us to determine whether they are suitable for the intended processes and purposes. The application, use and processing of the products are beyond our control and, therefore, entirely your own responsibility. In the event that a liability is nevertheless considered, any compensation will be limited to the value of the goods supplied by us and used by you. Of course, we guarantee the perfect quality of our products according to our general terms and conditions.

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