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D-53115 Bonn

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eMail: marketing@frings.com
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Questionnaire Defoamer

Address

Company _____

Contact _____

City/State, zip code _____

Address _____

Department _____

Country _____

Telefon _____

Fax _____

E-Mail _____

Tank dimensions

Gross volume: _____

Filling level: _____

Diameter/Height: _____

Tank Head: domed D / R
 flat

(please enclose drawings)

Liquid parameters

Liquid type: _____

Density: _____

Dyn. viscosity: _____

Suspend solids: _____

Salt content: _____

pH: _____

Gas parameters

Gas type: _____

Exhaust gas temperature: _____

Specific exhaust air volume: _____

Density: _____

System information

(Important! Please fill in)

System pressure: _____

System temperature: _____

CIP/SIP conditions

Temperature: _____

Pressure: _____

Special requirements: (corrosive, abrasive, etc.)



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Questionnaire

Defoamer

Foam parameter

Foam parameter	Unit	Size			
		after 0 min.	after 10 min.	after 30 min.	after 2h
Rising speed	m / s	_____			
Bubble size	[mm]	_____			
Liquid content(e)	[%]	_____			
Foam height	[cm]	_____			

For foam analysis please observe the following instructions

Sample quantities to be taken

Each sample taken for measuring the liquid content and the foam height is poured into one weighed beaker (1L) or one wide-mouth graduated cylinder (1 L) to determine its net weight. Now the liquid meniscus is read

Foam liquid content

The foam liquid content (e) is calculated based on the ratio: escaping liquid / foam volume.

$$e = \frac{V_{fl}}{V_s}$$

$$V_s = V_{fl} + V_g$$

Mit

$$V_{fl} = x \quad [\text{ml foam liquid}]$$

$$V_g = y \quad [\text{ml gas}]$$

In case of constant foam liquid content the liquid volume (Vfl) in a foam flow with a gas flow rate (Vg) is calculated by using the formula:

$$V_{fl}' = V_g' / (1 / e - 1)$$

Mit

$$V_{fl}' = x \quad [\text{l/h or m}^3/\text{h foam liquid}]$$