



**TENSIOFIX®**

**SC  
FORMULATION**

**TYPICAL FORMULA**

Active ingredient(s)	50,00 g/l	to	800,00 g/l
Anti-freeze agent	30,00 g/l	to	100,00 g/l
Surfactant(s)*	20,00 g/l	to	60,00 g/l
Thickening agent(s)	1,00 g/l	to	10,00 g/l
Biocide	0,50 g/l	to	1,00 g/l
Antifoam agent	0,50 g/l	to	5,00 g/l
Water	Quantity adjusted to 1 l		

\* Wetting-Dispersing agent(s).

**DEVELOPMENT STEPS**

**1** Check the active ingredient (a.i.) properties.

- Solid powder
- Insolubility of the a.i. in water (ideally solubility < 100 ppm)
- High melting point of the a.i. (ideally > 80°C)
- A.i. non sensitive to hydrolysis.

**2** Identify the right wetting-dispersing agent(s).

**Range of Tensiofix® wetting-dispersing agents**

Our alkylphenol free range of wetting-dispersing agents consists in 4 main products:

• Tensiofix® 96 DB 08

- Tensiofix® SC
- Tensiofix® CGA 213
- Tensiofix® XA 265

## User guidelines

As first trial, we recommend testing Tensiofix® 96 DB 08 at 3% w/w.

Tensiofix® 96 DB 08 gives good results with a lot of a.i.

In case of crystal growth or viscosity increase, the combination of Tensiofix® 96 DB 08 with another wetting-dispersing agent, still with a total of 3% w/w of surfactants is recommended.

Tensiofix® 96 DB 08

+

Tensiofix® XA 265  
Tensiofix® CGA 213  
Tensiofix® SC

2,5 % w/w

0,5 % w/w

### 3 Identify the other components:

#### Anti-freeze agent:

- MEG, DEG, propylene glycol...
- 3% is a minimum for stability; 10% enables a good stability up to -10°C.

#### Thickening agent

The main families of thickening agents used in our laboratory are natural gums (Tensiofix® 821) and mineral clays.

#### Antifoam

We use mainly organic antifoam (Tensiofix® LO 51).

## MATERIAL REQUIRED

- Premix preparation: high shear homogeniser
- Wet grinding: glass beads grinder
- Final homogenisation: simple propeller.



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**TENSIOFIX**<sup>®</sup>