



**TENSIOFIX**

**WG**  
FORMULATION

## TYPICAL FORMULA

Active ingredient(s)	500,00 g/kg	to	800,00 g/kg
Surfactant(s)*	50,00 g/kg	to	150,00 g/kg
Antifoam agent	0,00 g/kg	to	10,00 g/kg
Carrier-filler	Quantity adjusted to 1 kg		

+ process water

10 - 30 % (in case of extrusion process)

± 50 % (in case of (Fluid) Spray Drying)

\* Binding-Dispersing-Wetting agent(s).

## DEVELOPMENT STEPS

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

- Solid powder
  - Is the a.i. soluble or insoluble in water?
  - What is the melting point of the a.i.?
- This will guide the preparation method to use.

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

### Range of Tensiofix® binding-dispersing-wetting agents

Our alkylphenol free range of binding-dispersing-wetting agents consists in 7 main products:

• Tensiofix® LX Special:	Binding-dispersing agent
• Tensiofix® SC:	Binding-dispersing agent
• Tensiofix® BCZ:	Wetting-dispersing agent
• Tensiofix® 80 BSP:	Wetting-dispersing agent
• Tensiofix® DP 400:	Dispersing agent
• Tensiofix® LB 100:	Binding-dispersing agent
• Tensiofix® LB 350:	Binding-dispersing agent

## User guidelines

Usually we start with 10% Tensiofix®: combination of binding-dispersing agent (7-10%) with wetting-dispersing agent (0-3%).

### 3 Identify the other components:

#### Antifoam

We use mainly Tensiofix® CJK.

#### Carrier

For SG: the carrier-filler is soluble: urea, ammonium sulphate, sugar...

For WG: the carrier-filler is insoluble: kaolin, CaCO<sub>3</sub>, Silica...

## MATERIAL REQUIRED

- Extrusion: Blender – Jet-mill – Kneader – Extruder – Fluid Bed dryer
- Fluid Spray Drying: Glass bead grinder – Fluid Spray drying tower
- Spray Drying: Glass bead grinder – Spray drying tower
- Fluid Bed agglomeration: Blender – Jet-mill – Fluid bed dryer with spraying nozzle.



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