

Low Foaming Rinse Aids

Enabling Choices for Mechanical Ware Wash

Nowadays, the development of more energy- and water-saving ware wash machines brings new challenges for ware wash detergents and rinse aids: The soil load in the wash liquor increases while the temperature decreases. Therefore, new formulations are required in order to fulfill the following requirements:

- No/low foam should be formed at temperatures of 25 - 90°C
- Foam formation caused by soil components must be suppressed
- A good rinse performance should be achieved

To meet these needs we developed several solutions in our I&I laboratory with the following results:

- The rinse aid formulations with Dehypon[®] and Plurafac[®] types show an improved foam profile
- The developed rinse aid formulations (RA 1-6) show a comparable filming and spotting performance vs. benchmarks (BM)
- The use of Texapon[®] EHS reduces the amount of hydrotrope significantly

We found solutions even for the most challenging soil loads.

This enables smooth operation of state of the art mechanical ware wash machines.



Results in the Foaming Behavior:

Ingredients	RA 1	RA 2	RA 3	RA 4	RA 5	RA 6	BM 1	BM 2
Plurafac® LF 120	15	15						
Plurafac® LF 221					15	15		
Plurafac® LF 303	15	15						
Dehypon® LS 36			15	15	15	15		
Dehypon® LS 54			15	15				
Sodium cumene sulfonate	3		16		14			
Texapon® EHS		2		8		6		
Water demineralized	67	68	54	62	56	64		
Skimmed milk powder @ 1/2/3 min	+/+/+	+/+/+	+/+/+	+/+/+	-/o/+	o/+/+	o/o/o	-/-/-
Wheat Flour @ 1/2/3 min	+/o/-	+/+o	+/+/+	+/+/+	+/+/+	+/o/-	o/o/o	-/-/-
Whole Egg powder @ 1/2/3 min	-/-/-	-/-/-	o/o/o	+/o/-	-/o/+	-/-/o	o/o/o	-/-/-

You can find additional information and contact your local BTC contact partner directly using our website for your [industry](#).

Would you like to regularly receive useful information and the latest news from the world of BTC's speciality chemicals for your industry? You can subscribe to our Expertise Plus Information specifically for your industry at www.btc-europe.com/information.