

Starting point formulation – Liquid laundry detergent containing stabilized encapsulated fragrance liquid laundry detergent with stabilized encapsulated fragrance for use at 55 ml dosage

Enzymes can be added as required. Anti-settling achieved with RHEOBYK-7420 ES/CA/ET * ¹⁾

Formulation

Position	Component	Supplier	Function	Weight (g)
1	Demineralized water		Solvent	28.90
2	Zetesol NL 2 U	Zschimmer & Schwarz	Anionic surfactant	40.00
3	Wilfarin DK 1218	Wilmar	Soap	2.00
4	HOESCH AE 50	Julius Hoesch	Anionic surfactant	10.00
5	HOESCH T9	Julius Hoesch	Nonionic surfactant	10.00
6	DEQUEST 2066	Italmatch	Sequestrant	2.00
7	Tri Sodium Citrate	Multiple	Sequestrant	2.00
8	Ethanol	Multiple	Solvent	1.50
9	Propylene glycol	Multiple	Solvent, enzyme stabilizer	3.00
10	Folco Smartcaps Bio	Follmann	Encapsulated fragrance	0.30
11	RHEOBYK-7420 ES/CA/ET *	BYK	Anti-settling	0.30
12	Enzymes	Multiple	Washing	As required
13	KOH	Multiple	pH adjustment	As required
Total				100.00

* solvent carrier can depend on the system. Recommended to test.

Instructions

- Add water to a mixing vessel and stir at moderate shear (500–1,000 rpm).
- Add all components #1–#11 sequentially under stirring at 500–1,000 rpm. Wait until added component is dissolved before adding next component.
- Stir mixture for 30 min at around 1,000 rpm after addition of RHEOBYK-7420 CA/ET.
- Check pH-value of formulation and adjust to approx. 8.5 with KOH if necessary.

¹⁾ alternatives: RHEOBYK-7420 ES/CA/ET * or RHEOBYK-7420 CA/ET

Characteristic data /specification

Data	Unit	Value
Anionic surfactant	%	17.80
Nonionic surfactant	%	9.00
Total solid content	%	26.80

Further information /application

- The liquid laundry detergent cannot be used as is. Enzymes need to be added to achieve a good cleaning effect. RHEOBYK-7420 **CA/ET** does not interact with enzymes and can be used in various liquid laundry formulations to stabilize encapsulated fragrances, opacifiers, decorative pearls or any other kind of solid.

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This issue replaces all previous versions.

