

Starting point formulation – Liquid laundry detergent containing stabilized encapsulated fragrance

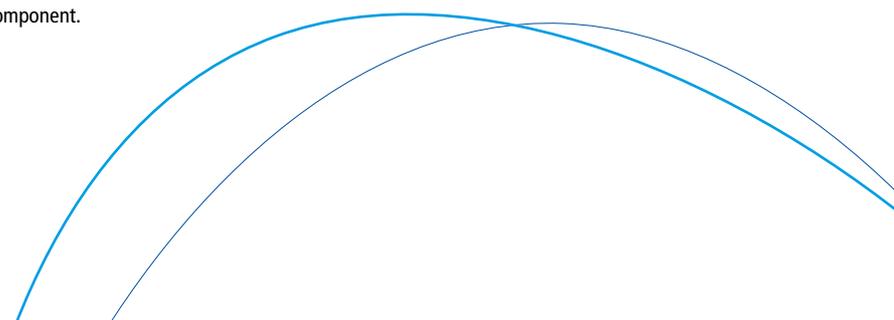
Enzymes can be added as required. Anti-settling achieved with PURABYK-R 5530 or PURABYK-R 5531.

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	PURABYK-R 5530 or PURABYK-R 5531	BYK	Anti-settling	0.30
12	Enzymes	Multiple	Washing	As required
13	KOH	Multiple	pH adjustment	As required
Total				100.00

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 PURABYK-R 5530 or PURABYK-R 5531.
- Check pH-value of formulation and adjust to approx. 8.5 with KOH if necessary.



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. PURABYK-R 5530 and PURABYK-R 5531 do not interact with enzymes and can be used in various liquid laundry formulations to stabilize encapsulated fragrances, opacifier, decorative pearls or any other kind of solid.



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