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## 1. HOW TO FORMULATE

Trials in our laboratories have shown that most perfumes and colours can be used successfully in cosmetic bases.

These products may require heating to a maximum of 30-35°C and continuous agitation when introducing additives.

Once all additions are complete it is important to stop heating and begin cooling down as with prolonged high temperatures emulsions will begin to split.

**Note:** The choice of additives; including perfume and colours may impact:

- Ease of use and solubility
- Stability
- Final product colour

Fragrances levels of 2%\* or less usually give an acceptable odour and rarely cause stability problems.

\*Hair conditioner base C & Lotion base C must use organic essential oils at 0.5% Max.

Should there be a need to thicken these bases you *could* use pre-neutralised polymer liquids or other liquid polymers which may need neutralisation. These will need to be fully tested to ensure they are stable and meet the end use and / or any standards e.g COSMOS

## 2. STABILITY GUIDANCE

During the development of this base our standard stability testing protocol was successfully conducted, this included monitoring for a 12-week period under the following conditions: Ambient (light & dark), Fridge (5°C), Oven (40°C)

Once the base has been used to formulate a final finished product, via the addition of additives, fragrance, ***we highly recommend that additional stability is conducted to verify the final product.***

## 3. MICROBIOLOGY GUIDANCE

These bases have passed a microbiological challenge test in accordance with ISO 11930:2019.

Once the base has been used to formulate a final finished product, via the addition of additives and fragrance, ***we highly recommend that additional microbiological challenge testing is conducted to verify the final product.***

## 4. PRODUCT SAFETY

Our product bases have been formulated to comply with the Cosmetic Product Regulation (EU) No.1223/2009.

Once the base has been used to formulate a final finished product, via the addition of additives and fragrance, ***a final Cosmetic Product Safety Report (CPSR) will be required for sale in the EU/UK.***

## 5. STORAGE

Optimum storage conditions 15-25°C

For base shelf-life, see delivery certificate of analysis (CofA).

For more info, tips and troubleshooting tricks on our soap bases, visit our website

[www.stephensonpersonalcare.com](http://www.stephensonpersonalcare.com)