

Shampoo Base C Processing Instructions

Converting Shampoo Base C into a Finished Product

Before commencing with Processing

Please be aware that the product may arrive to you in a state of aeration, this can be resolved during the initial stirring of the base. To deaerate the product slowly stir the product preferably with a small amount of heat, this may take some time but the bubbles will eventually dissipate.

1. To a sterilised vessel with a suitable stirrer (preferably with variable speed), lid and preferably with a heater, add the Shampoo Base C.

Please note:

The best type of agitation is likely to have large blades that go close to the edge of the sides of the vessel. Just a small propeller stirrer in the middle of the vessel may not be sufficient. Homogenisation will aerate the product.

2. The speed of agitation should be slow initially and gradually increased until the thick Shampoo Base C can be seen to be moving at the sides of the vessel. Once the Shampoo Base C starts moving it will temporarily thin. Adjust agitation speed, so it is at the minimum speed that allows the Shampoo Base to be slowly moving at the sides of the vessel.

Please note:

If the Shampoo Base C is stirred too quickly and becomes aerated the air bubbles become temporarily suspended in the product and give it a more translucent/opaque appearance. It could take several days or weeks for the air to come out of the product.

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3. Heating is not usually a requirement, however if the temperature is below 20°C then it may be an advantage to warm whilst stirring to 20 - 25°C. With the stirrer on, add the organic essential oils as required (typically add 0.2 - 0.5%). Stir for 15 - 30 minutes.

NOTE:

- Not all essential oils are the same in terms of solubility profile
- Initially, attempt to add the essential oil to the base as described above
- If required, a solubiliser may be required to obtain better clarity (blends the essential oil into the base as otherwise insoluble or hard to solubilise)
- Potential solubilisers include polysorbate 20 and PEG 40 hydrogenated castor oil at a ratio of 4 Solubiliser : 1 Essential Oil

Please note:

Like all water based personal care products, Shampoo Base is susceptible to microbial contamination, even though it has passed microbial preservative challenge testing. Good hygiene and good manufacturing practices must be carried out when using this product at all times.

Filling of Shampoos

- 1: Before filling the processed Shampoo, it is advisable that it should pass microbiological testing.
- 2: When filling the Shampoo please remember that if it becomes very aerated it will get a temporary more translucent/opaque appearance, and it could take several days or weeks for the air to come out and for it to gain it's clarity.
- 3: The filled product should pass microbiological testing.

Please note:

Like all shampoos, your formulations should first pass stability testing and microbial preservative challenge testing before you manufacture them.

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