

Unicorn Power Scour and Fibre Rinse

Fibre mill start-up guidelines for scouring greasy sheep wool, waxy mohair, and less oily or waxy (but dirtier) luxury fibres

Step 1-

Initial Wash.- dose Unicorn Power Scour at an initial working concentration of 2-3% of the fibre dry weight. For example: to scour 100 lbs. (45.4kg) of fibre, use 2 - 3 lbs. (.9 - 1.4kg) or approx. 32 - 48 fluid oz. (947 ml - 1.4 L) of Unicorn Power Scour. Use lower dosage percentages for less oily/waxy fibres and higher percentages for oily/waxy fibres.

Depending on fibre characteristics, working temperatures for scouring oily/waxy wool and mohair with Unicorn Power Scour should be in the range of 60°C (140°F) and for less oily/waxy Fibres like Alpaca, Bison, and Cashmere, temperatures should be in the range of 50°C (122°F). Cleaning performance will be optimal in this range and problematic fibre damage/tangling should be reduced. In addition, operating economics will be improved due to the lower energy costs in maintaining these temperatures.

In situations where raw, exceptionally greasy fleece is to be scoured, consider a pre-soak for 20 - 30 minutes in 60° C (140° F) water with Power Scour before the first scouring wash. If water hardness exceeds about 17 grains (100 ppm CaMg) a higher concentrate level may be required. When large amounts of calcium and magnesium salts, from direct water sources or from the fibre itself, results in water hardness, a pre-soak will help to release amounts of water soluble minerals. **Use caution:** Soaking greasy fleece in hot water alone, then allowing it to cool, may further bind grease to the fibres.

Note

For small fibre batch cleaning, use a "small batch" volume of water or for higher volumes of water increase the Power Scour dosage for maximum effectiveness. Using too much water for small batch cleaning dilutes cleaning power and should be adjusted accordingly.

Step 2

Additional washes - follow the same procedures as in Step 1 - except reduce Power Scour to 1-2% of fibre dry weight. For example: for every 100 lbs. (45.4kg) of fleece use approx. 16 to 24 fluid oz. (.45kg - .7kg) or (473 ml – 710 L). Again use lower percentage dosage for less oily/waxy fibres and higher percentage for oily/waxy fibres. Exceptionally greasy/waxy fibres may require an additional wash.

Step 3

Rinse using 45 - 50°C (113° - 122°F) water for non-greasy fibre and 50 - 60°C (122° -140°F) water for greasy, waxy fibre. Oily/waxy fibres may require an additional rinse.

Step 4

We recommend the use of **Unicorn Fibre Rinse** in the final rinse. * This product will help strengthen the fibre, ease the final processing steps and maximize ease of handling. Depending on fibre type, this product should be added to the bowl at approximately 2% of the fibre dry weight. For example: to rinse 100 lbs. (45.4kg) of fibre use 2 lbs. or 32 fluid oz. (.9kg or 947ml) of Unicorn Fibre Rinse.

Notes

****To maximize the bonding of dyes to fibre we suggest conditioning with Unicorn Fibre Rinse after the dyeing process, not before.***

Each fibre mill is expected to be slightly different and the above recommendations should be used as a starting point.

Unicorn Power Scour and Fibre Rinse are biodegradable, earth friendly professional grade products that contain no phosphates, enzymes or fillers.

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