

ARACHIS ONLINE TRAINING
MODULE 19: WASHING PASTE/ LIQUID LAUNDRY SOAP

HOW MAKE 10 LITRES PASTE WASHING POWDER

INGREDIENTS

- a) Water 6.5 L Base
- b) Sulphonic acid (LABSA) 1.8 kg Main detergent
- c) Caustic soda (NaOH) 270 g (dissolved in 500 ml water) Neutralization
- d) SLES 400 g Foam booster
- e) Palm fatty acid / oleic acid 300 ml Paste body & grease removal
- f) Soda ash 400 g Builder & thickening
- g) Sodium silicate 300 ml Anti-redeposition
- h) STPP 250 g Cleaning booster
- i) Salt 150–250 g Final viscosity adjustment
- j) Colour & perfumesmall Marketing

DIRECTION

Mixing Procedure

Step 1 — Neutralize detergent

Add 4 L water

Slowly add caustic soda solution

Add sulphonic acid slowly while stirring

→ mixture becomes milky and thick (detergent formed)

Step 2 — Build cleaning system

Add SLES

Add fatty acid

Add soda ash

Add STPP

Add sodium silicate

Step 3 — Adjust paste body

Add remaining water gradually

Add salt until paste texture reached

Add colour & perfume

Rest 12 hours → final thick paste forms

Liquid laundry soap measurement for 20l

- k) Water 14 L Base
- l) Sulphonic acid 2.2 kg Primary surfactant
- m) Caustic soda 330 g (in 1 L water) Neutralization
- n) SLES 1.8 kg Foam & mildness
- o) STPP 400 g Builder
- p) Sodium carbonate 350 g Cleaning booster
- q) Sodium metasilicate 250 g Grease removal

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|----|----------------------------|----------|------------------------|------------|
| r) | CMC | 80 g | Thickness & suspension | |
| s) | Salt | 150 g | Viscosity tuning | |
| t) | Preservative (no formalin) | 20–30 ml | | Shelf life |
| u) | Colour & perfumes | small | Appeal | |

Mixing Procedure

Step 1 — Neutralize LABSA

Add 8 L water
 Add caustic soda solution
 Slowly add sulphonic acid while stirring
 → detergent forms (important stage)

Step 2 — Add surfactants

Add SLES gently

Step 3 — Add builders

Add STPP
 Add sodium carbonate
 Add sodium metasilicate

Step 4 — Finish

Disperse CMC in small water then add
 Add salt slowly for thickness
 Add preservative
 Add colour & perfume

Top up to 20 L

Rest overnight → viscosity stabilizes.