

Wool Wash

Enzyme-Free Formula · Enzyme-Free Formula · with Near-Neutral pH 6.5–7.0, 40–45 ml per Load

KEY BENEFITS

— Near-neutral pH 6.5–7.0	preserves the keratin protein bond structure of wool and cashmere fibres — prevents the fibre cuticle lifting that causes irreversible felting.
— Enzyme-free formulation	no protease activity that degrades natural protein fibre structure — the critical distinction from standard institutional laundry detergents.
— 40–45 ml per load	calibrated for both machine delicate cycles and hand washing protocols used in institutional premium fabric care.
— Prevents shrinkage and felting	the failure modes that make wool garment replacement necessary — and that are entirely preventable with correct detergent chemistry.
— Extends premium asset lifespan	measurable reduction in wool and cashmere garment replacement frequency — direct procurement cost reduction for institutional fabric asset programmes.
— Machine washing	add 40–45 ml to the detergent compartment. Select wool or delicate cycle — 30°C maximum, low spin speed. Do not use high spin — centrifugal force causes scale interlocking.

AT A GLANCE

pH	6.5–7.0 (near-neutral)
Dose per load	40–45 ml
Fragrance	Light, neutral — minimal scent to avoid fragrance deposit on delicate fibres
Pack size	5 Litres concentrate
Shelf life	24 months from date of manufacture, unopened
Safe on	Wool, cashmere, angora, silk, fine knits, blended delicates
Application	Machine delicate / wool cycle or hand wash

HOW TO USE

- 1 Machine washing**
add 40–45 ml to the detergent compartment. Select wool or delicate cycle — 30°C maximum, low spin speed. Do not use high spin — centrifugal force causes scale interlocking.
- 2 Hand washing**
dissolve 40 ml in a basin of cool water. Gently knead the garment for 3–5 minutes. Do not wring, scrub, or agitate vigorously.
- 3 Rinsing**
rinse in cool water at the same temperature as the wash — temperature shock between wash and rinse water causes rapid fibre swelling and scale interlocking. Same-temperature rinsing is critical.
- 4 Drying**
lay flat on a clean towel and reshape to original dimensions while wet. Do not hang — hanging causes wet wool to stretch and distort under its own weight. Do not tumble-dry.
- 5 Frequency**
wool and cashmere garments require less frequent washing than cotton — spot cleaning between full washes extends garment life and reduces total wash cycle count.

WHY IT WORKS

Why does wool shrink and felt in standard laundry detergent, and what chemistry prevents it? Wool fibre is composed of keratin — a fibrous structural protein also found in human hair and nails. The fibre surface consists of overlapping protein scales (the cuticle) that point from root to tip, creating a directional surface texture. Under normal dry conditions, these scales lie flat and the fibre moves freely. The problem begins when three conditions coincide: alkaline pH, heat, and mechanical agitation. Alkaline conditions above pH 8 cause two adverse reactions in keratin: they break the disulphide cross-links that maintain the three-dimensional structure of the protein, weakening the fibre; and they cause the cuticle scales to swell and lift away from the fibre surface. Once lifted, agitation causes adjacent fibres' scales to interlock — the directional surface texture creates a ratchet effect where fibres can move closer together but not apart. This interlocking is felting, and it is irreversible because the disulphide bonds reform in the new interlocked position. Standard institutional laundry detergents compound the problem with protease enzymes — biological catalysts specifically designed to break peptide bonds in protein molecules. Protease is highly effective at removing protein stains (blood, food) but is equally reactive with the keratin protein of the wool fibre itself, causing progressive fibre degradation and weakening with each enzyme-containing wash cycle. A near-neutral pH formulation with no protease enzyme is not simply a gentler version of standard detergent — it is a chemically distinct product that protects protein fibre structure rather than attacking it.

DID YOU KNOW

Fact Wool fibres have a protein structure called keratin — the same protein as human hair. High-alkalinity detergents break down keratin bonds, causing the fibre cuticle to lift and interlock with neighbouring fibres. That interlocking is felting. A near-neutral pH of 6.5–7.0 leaves the keratin structure intact. Your cashmere survives the wash. The chemistry is that simple — and that critical.

WHAT YOU GET FROM ONE PACK

42 ml per load.

One 5-litre pack. 119 gentle fabric treatments. At 42 ml average per load, a single 5L pack delivers approximately 119 complete delicate fabric treatments. For a healthcare facility managing premium wool blankets, fine-knit staff cardigans, and structured wool uniform components on a bi-weekly rotation, one pack covers approximately 3 months of dedicated delicate fabric care. The replacement cost avoidance of a single felted cashmere blanket or wool uniform jacket exceeds the cost of a full 5-litre pack. For educational institutions managing academic gown collections, wool-blend ceremonial items, and staff uniform garments, a documented wool-specific washing protocol reduces insurance and replacement claims associated with laundry damage.

FULL PRODUCT SPECIFICATIONS

Formulation	Enzyme-free mild surfactant blend — protein fibre safe
pH	6.5–7.0 (near-neutral)
Specific gravity	1.00–1.01 at 25°C
Appearance	Clear to slightly hazy liquid
Fragrance	Light, neutral — minimal scent to avoid fragrance deposit on delicate fibres
Dose per load	40–45 ml
Application	Machine delicate / wool cycle or hand wash
Wash temperature	30°C maximum — cold water preferred
Safe on	Wool, cashmere, angora, silk, fine knits, blended delicates
Avoid on	Regular cotton or synthetic institutional loads
PPE	None
Shelf life	24 months from date of manufacture, unopened
Pack size	5 Litres concentrate
MSDS / TDS	Available on request

CAUTION & STORAGE

Handle with care.

For professional and institutional use. For use on delicate protein-fibre fabrics only. Not suitable as a general institutional laundry detergent. Do not use on silk items requiring dry-clean only care. Always check individual garment care labels before washing. In case of eye contact, rinse with water. Keep out of reach of children. Store in original sealed container below 30°C, away from direct sunlight. Keep container tightly closed when not in use. Shelf life 24 months from manufacture date, unopened.

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BEFORE YOU START — PPE REQUIRED

- ✓ Disposable gloves (recommended)

QUICK REFERENCE

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- ✓ In case of eye contact, rinse with water.

DON'T

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- ✗ Keep out of reach of children.

Emergency / questions: care@allesclinx.com · allesclinx.com · National Poison Control (India): 1800-116-117