



ELHUME - LNL™ (Lanolin)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Translucent, pale yellow solid; waxy or greasy texture
Physical Form	Wax
Odor	Slight odor or practically odorless
Density or Specific Gravity	Specific gravity: 0.935 at 25 °C
Refractive Index	1.478-1.482 @ 40 °C/D
Specific Gravity	0.935 at 25 °C
Viscosity	8 - 12 cSt @ 10 deg C
Chemical Properties	
Solubility	Sparingly soluble in cold, more in hot alcohol; freely soluble in chloroform, ether
Water Solubility	Insoluble
Incompatibilities	Strong oxidizing agents
Hazardous Reactions	May emit acrid fumes if overheated; combustible
Thermal Properties	
Melting Point	38-44°C
Flash Point	460 °F (238 °C) (Closed cup)
Autoignition Temperature	833 °F (445 °C)
Thermal Stability	Stable at room temperature; decomposes at high temperatures

2. Processing Methods



Cosmetic cream

In cosmetic cream production, add lanolin to the oil phase and heat gently to ensure full incorporation. It enhances emolliency and skin barrier protection, so blend thoroughly for a smooth, uniform texture.

Key Ingredients	Indicative Dosage (% w/w)
Lanolin (anhydrous)	5%
Mineral Oil	10%
White Beeswax	7%
Cetyl Alcohol	2%
Stearic Acid	3%
Triethanolamine	1%
Glycerin	5%
Preservative (e.g., Phenoxyethanol)	0.5%
Fragrance (optional)	0.5%
Purified Water	66%

Lip balm

In lip balm production, melt lanolin with other oils and waxes at around 70-75°C to ensure a homogeneous mixture. Its rich emollient properties improve spreadability and moisture retention, so mix thoroughly before pouring.

Key Ingredients	Indicative Dosage (% w/w)
Oils & Emollients	40-60%
Waxes	15-25%
Butters	20-40%
Lanolin	0.5-5%



Foundation

When adding lanolin to foundation formulations, warm it gently before incorporation to improve dispersion and avoid graininess. Add during the oil phase blending to ensure uniform emulsification and stability.

Key Ingredients	Indicative Dosage (% w/w)
Lanolin	5-10%
Beeswax	5-10%
Caprylic/Capric Triglyceride	10-15%
Ethylhexyl Palmitate	5-10%
Zinc Oxide	5-10%
Iron Oxides (Pigments)	5-15%
Boron Nitride	2-5%
Talc	5-10%
Lanolin Oil	2-5%
Phenoxyethanol & Ethylhexylglycerin	0.5-1%

Hair shampoo

When adding lanolin to hair conditioner, gently warm it first to a liquid state to ensure even dispersion. Incorporate it slowly into the oil phase under moderate stirring to avoid clumping.

Key Ingredients	Indicative Dosage (% w/w)
Cetearyl Alcohol	5%
Behentrimonium Chloride	2.5%
Lanolin	3%
Glycerin	3%
Dimethicone	1%
Cetyl Alcohol	2%
Preservative (e.g. Phenoxyethanol)	1%
Deionized Water	60-80%
Fragrance, Citric Acid	5-10%

3. Dosing by Application

Products	Authorized dosage %
Creams, ointments, balms, and lotions	1-20%



Products	Authorized dosage %
Lip stick, lip balm	1-20%
Rinse off products	0.5-10%

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.

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