



ELHUME - BWX™ (Bee Wax)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	White solid; pellets; slabs; flakes
Physical Form	Pellets
Viscosity	8 - 12 cSt @ 10 deg C
Density/Specific Gravity	0.950-0.965 at 15-25°C
Thermal Properties	
Melting Point	62 - 65°C
Flash Point	400°C
Boiling Point	Decomposes before boiling
Thermal Stability	Stable at room temperature; decomposes at high temperatures
Chemical Properties	
Water Solubility	Insoluble
Incompatibilities	Strong oxidizing agents
Hazardous Reactions	May emit acrid fumes when overheated; combustible

2. Processing Methods

Cosmetic cream

In cosmetic cream production, melt beeswax in the oil phase to ensure complete liquefaction. Blend with other oils before emulsification to achieve a smooth texture and stable consistency.

Key Ingredients	Indicative Dosage (% w/w)
Emollients	5-20%
Emulsifiers	2-6%
Humectants (e.g., glycerin)	2-8%
Beeswax	1-3%



Lip balm

In lip balm production, melt beeswax with oils and butters until fully liquefied. Pour the mixture into molds while still warm but not hot to ensure smooth setting and prevent graininess.

Key Ingredients	Indicative Dosage (% w/w)
Castor Oil	30%
Beeswax	25%
Candelilla Wax	10%
Cocoa Butter	5%
Shea Butter	5%
Jojoba Oil	5%
Titanium Dioxide	2%
Iron Oxide	0.5%
Vitamin E Acetate	1%
Tocopherol	0.5%

Soap formulation

When adding beeswax to soap, melt it gently with your oils before mixing with lye to ensure even distribution. Beeswax can slow trace, so adjust mixing times accordingly. Avoid overheating to preserve its natural aroma and beneficial properties.

Key Ingredients	Indicative Dosage (% w/w)
Palm Oil	23.5%
Olive Oil	23.5%
Coconut Oil	11.8%
Castor Oil	3.9%
Water	24.6%
Lye (NaOH)	8.9%
Beeswax	1.96%



Foundation

When adding beeswax to foundation production, melt it gently to avoid degradation, and incorporate it into the oil phase to ensure proper emulsification.

Key Ingredients	Indicative Dosage (% w/w)
Beeswax	8-12%
Carrier Oil (e.g., Jojoba Oil, Sweet Almond Oil)	15-25%
Pigments (Iron Oxides, Titanium Dioxide)	10-20%
Water / Aloe Vera Juice	30-40%
Emulsifier (e.g., Glyceryl Stearate)	3-5%
Preservative (e.g., Phenoxyethanol)	0.5-1%

3. Dosing by Application

Products	Authorized dosage %
Creams, ointments, balms, and lotions	1-3%
Deodorants	Upto 35%
Lip stick, lip balm	10-15%
Hair cosmetics	1-10%

4. Grade Comparison Summary

Parameter	Cosmetic Grade
Color	Yellow, off-white, white
Purity	≥ 95-98%
Odor	Mild, pleasant
Appearance	Pastilles, slabs, pellets
Solubility	Same
Regulatory Compliance	INCI, FDA cosmetic guidelines
Common Applications	Lotions, hair wax, deodorants

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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