



White Petroleum Jelly

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Colorless to white paste; White to off-white semi-solid; greasy, waxy texture
Physical Form	Paste
Molecular Weight (g/mol)	209.2863
Density or Specific Gravity	0.9 g/cm ³
Viscosity	18.2 cSt at 100 °C
pH (if aqueous solution)	4.5 ~ 8.0
Density	0.9 g/cm ³
pH	4.5-8.0
Thermal Properties	
Melting Point	36-60 °C
Boiling Point	302 °C
Flash Point	182-221 °C
Autoignition Temperature	>290 °C

2. Processing Methods



Cosmetic cream

Add Petrolatum to the oil phase and heat until fully melted and uniform. It acts as an occlusive agent, so ensure thorough blending to create a stable, smooth cream with effective moisture barrier properties.

Key Ingredients	Indicative Dosage (% w/w)
Water (Purified)	65.00%
Petrolatum	15.00%
Mineral Oil	5.00%
Stearic Acid	3.00%
Glyceryl Monostearate	3.00%
Cetyl Alcohol	3.00%
Glycerin	5.00%
Triethanolamine	1.00%
Methylparaben	0.20%
Propylparaben	0.10%
Fragrance	0.20%
Preservative (e.g., Phenoxyethanol)	0.50%

Lip balm

Add Petrolatum to the oil phase and heat it gently until fully melted and homogeneous. It provides occlusivity and a smooth glide, so ensure even blending with waxes and oils for a stable, and uniform lip balm texture.

Key Ingredients	Indicative Dosage (% w/w)
Petrolatum	45%
Beeswax	20%
Castor Oil	15%
Sweet Almond Oil	10%
Vitamin E	1%
Fragrance	0.5%
Tocopherol (Vitamin E)	0.5%
Deionized Water, Preservative	



Lipstick

In lipstick formulations, add Petrolatum during the oil phase melting stage to enhance glide, shine, and moisture retention. Balance with harder waxes (like beeswax or candelilla) for desired firmness and shape retention. Avoid overheating to preserve texture and prevent discoloration.

Key Ingredients	Indicative Dosage (% w/w)
Petrolatum (White)	9.2%
Candelilla Wax	9.2%
Ozokerite	4.5%
Lanolin Alcohol	9.2%
Acetylated Lanolin Alcohol	7%
Hydrolyzed Animal Protein	0.25%
Wheat Germ Glycerides	0.45%
Vitamin E (dl-alpha tocopherol)	0.03%
Oleyl Alcohol	8%
Propyl Paraben	0.2%
Castor Oil	19.14%
Titanium Dioxide (TiO ₂)	2%
Colorant, Fragrance	



Foundation Cream

Add Petrolatum to the oil phase of foundation cream formulations to boost occlusivity and provide a smooth, emollient texture. Ensure the mixture is cooled gradually to maintain a smooth, non-greasy texture. Adjust emulsifier levels if needed to maintain stability and prevent separation.

Key Ingredients	Indicative Dosage (% w/w)
Petrolatum (White)	15%
Mineral Oil	4%
Ozokerite	5%
Beeswax	3%
Glycerin	3.5%
Propylene Glycol	1.5%
Lipowax R2	6%
Lipomulse 165	2.5%
Disodium EDTA	0.1%
Microcare DMP	0.6%
Aqua	70-80%
Fragrance	

3. Dosing by Application

Products	Authorized dosage %
Creams, ointments, balms, and lotions	Upto 40%
Lip stick, lip balm	Upto 40%

4. Grade Comparison Summary

Parameter	Cosmetic Grade
Purity	≥ 99.0%
Color	White or Yellow
Odor	Mild petroleum odor (varies by source)
Appearance	White or yellow smooth semi-solid
Regulatory Compliance	INCI, FDA-compliant for cosmetics
Common Uses	Lotions, lip balms, creams, sunscreens



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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