

TECHNOLOGY BROCHURE · 2026

07 PETROLEUM JELLY, LOTION & SHAMPOO

MANUFACTURING · FILLING · PACKAGING

Plants for white and yellow petroleum jelly, technical jellies and white oils, plus emulsion lines for lotions, creams and shampoos.

- Wax & oil melting and blending
- Pharma, cosmetic & industrial grades
- Vacuum emulsifying mixers
- Liquid detergent / shampoo mixing
- Hot & cold filling lines
- Capping, labelling & cartoning

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PETROLATUM-BASED PRODUCTS

SIMPLE INGREDIENTS, EXACTING PROCESS

Petroleum jelly, or petrolatum, is a semi-solid blend of highly refined mineral oil and wax. Its value lies in what it does not do: it is stable, does not go rancid and does not react with most active ingredients. On skin it forms a thin protective layer that slows water loss, which is why it appears in so many care products.

The same know-how in heating, mixing and hygienic filling carries over to emulsions such as lotions and creams, and to surfactant liquids such as shampoo. A single site can therefore serve several personal-care product lines with shared utilities and packaging.

PRODUCT FAMILY

- White and yellow petroleum jelly
- Ointment and balm bases
- Body lotions and moisturising creams
- Baby and massage oils
- Shampoos and liquid cleansers
- Technical jellies and greases for industry

Product range and grades are defined with each client.

GRADE

Pharma

Highly purified material for ointments and medicated preparations, made under tight hygiene and documentation.

GRADE

Personal care

Skin, hair and baby-care products where colour, odour and texture matter to the consumer.

GRADE

Technical

Protective and lubricating compounds where appearance is secondary to performance.

TABLE 7.1 TYPICAL MARKETS FOR THE PLANT'S OUTPUT

MARKET	EXAMPLE PRODUCTS
Healthcare	Ointment bases, wound-care and barrier products
Personal care	Jelly, lip balm, lotions, creams, hair oils, shampoos
Baby care	Baby jelly, oils and mild cleansers
Industrial	Corrosion-protection coatings, release agents, light lubricants
Private label	Contract manufacturing for retail and distributor brands

Raw materials are bought to the grade the product needs. Pharmaceutical and cosmetic grades call for certified base materials, traceable batches and a quality system that matches the target market's regulations.

THE PLANT

HEAT, MIX, FILL, SEAL



FIG. 7.1 STAINLESS-STEEL PROCESS VESSELS AND FILLING LINE (ILLUSTRATIVE)

LINE A · PETROLEUM JELLY

01 **Melting**
Wax and oil heated in jacketed tanks.

02 **Blending**
Weighed charge stirred to a uniform mix.

03 **Filtration**
Filtered hot to remove particles.

04 **Hot filling**
Jars and tubes filled, then cooled.

LINE B · LOTIONS & CREAMS

01 **Phase preparation**
Oil and water phases heated separately.

02 **Emulsifying**
Vacuum mixer with high-shear homogeniser.

03 **Cool-down**
Heat-sensitive ingredients added cool.

04 **Filling**
Bottles, tubes and jars.

LINE C · SHAMPOO

01 **Mixing**
Surfactants dispersed in water at low shear.

02 **Adjustment**
Viscosity, pH, colour and fragrance set.

03 **De-aeration**
Trapped air released before storage.

04 **Filling**
Bottles and sachets, capped and labelled.

Polished stainless-steel contact surfaces, drainable vessels and clean-in-place connections for hygienic grades.

Turnkey supply: process vessels, mixers, utilities, filling, capping and labelling. Capacities engineered to client requirement.

LET'S TALK ABOUT YOUR PLANT

FROM A FEED SAMPLE TO A RUNNING PLANT.

Share your feedstock, the products you want and the capacity you have in mind. Our process team will come back with a technical route, a block flow diagram and the next steps.

01 · Send

Feed details

Feedstock type, source, analysis if available, and the volume you expect per day.

02 · Define

Target products

The grades or cuts you need, the quality they must meet, and site constraints.

03 · Receive

Technical proposal

Process route, equipment scope and an execution plan for your review.

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