



ROQUETTE

BEAUTÉ

BEAUTÉ BY ROQUETTE® PO 160

Beauté by Roquette® PO 160 is a natural humectant, recommended for oral care, skin care, colour cosmetics and hair care applications.

Thanks to its intrinsic properties, Beauté by Roquette® PO 160 is also highly recommended in dry oral care products. Beauté by Roquette® PO 160 is non-cariogenic and provides a sweet flavour on your lips.

BENEFITS AT A GLANCE:

- Humectant & moisturizer for both skin & hair
- Natural preservative at high concentration
- Compacting agent for dry powder forms
- Texturizing agent
- Non-cariogenic agent

INCI NAME:

Sorbitol

PHYSICAL ASPECT:

Odourless, white or off-white, crystalline powder

ORIGIN:

Corn/Wheat starch

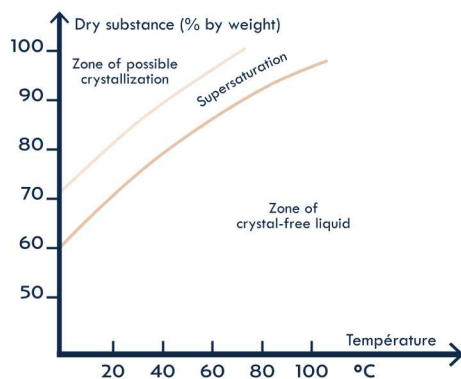
SPECIFIC FEATURES:



Dendritic surface of Beauté by Roquette® PO 160

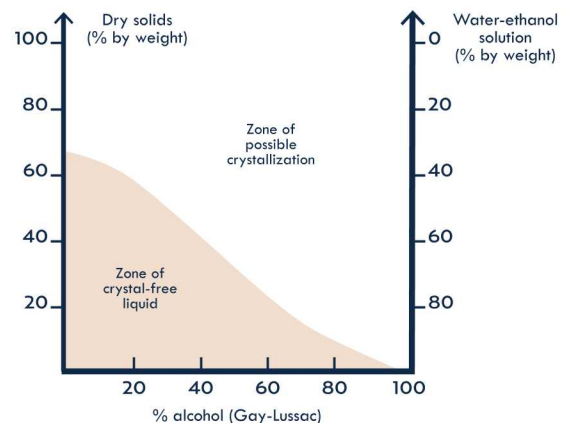
- Palm-free ingredient
- Very high solubility

SOLUBILITY IN WATER



Solubility of Beauté by Roquette® PO 160 as a function of temperature (According to Roquette's internal study)

SOLUBILITY IN SOLVENTS



Solubility of Beauté by Roquette® PO 160 in aqueous alcohol solution at 20°C (According to Roquette's internal study)

- Bacteriological stability

Non-fermentable by many microorganisms.

- Chemical stability

Resistant to acids and to dilute alkalis. The absence of aldehyde groups prevents any Maillard or Cannizzaro reactions from taking place.

- Thermal stability

Resistant to heat. Neither yellowing nor browning reaction occurs at temperatures up to 180°C and even at 200-220°C under certain conditions.

RECOMMENDED APPLICATIONS:

Oral care, Skin care, Colour cosmetics, Hair care

USAGE LEVELS:

0.5 - 10%

pH OF USE:

3 - 10

APPLICATION GUIDELINES:

Incorporate into the water phase

ISO/CERTIFICATION:

ISO 16128 natural origin Index (Ino): 1



REGULATORY STATUS:

Conform to:

Europe - European Cosmetic Regulation 1223/2009 and its amendments

USA - FD&C Act – 21 CFR 700 to 740

China - Hygienic Standard for Cosmetics: listed IECIC 2015

Japan - Japanese Pharmaceutical Affairs Law – Regulation for cosmetics

Non exhaustive list of countries, please contact us for additional information.

FORMULATION EXAMPLE:

D-PHASE SERUM

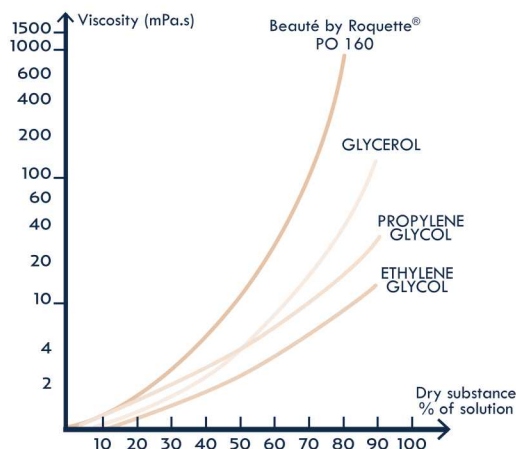
PHASE A	BEAUTÉ BY ROQUETTE® PO 160	20.00 %
	AQUA (WATER)	5.00 %
PHASE B	POLYGLYCERYL 10 MYRISTATE	3.30 %
	HELIANTHUS ANNUUS SEED OIL	41.50 %
	TOCOPHEROL & HELIANTHUS ANNUUS SEED OIL	0.20 %
	CAPRYLIC/CAPRIC TRIGLYCERIDE	30.00 %

PROCESS

- 1/ Heat A & B separately at 60°C
- 2/ Pour B into A slowly to create the D-phase gel under strong agitation

- Viscosity

At equivalent temperature and concentration, Beauté by Roquette® PO 160 solutions show a higher viscosity than those of other polyols. The viscosity of a Beauté by Roquette® PO 160 solution decreases with increasing temperature.



Viscosity of aqueous solutions of various polyols as a function of their dry solids concentration at 20°C (According to Roquette's internal study)