

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 or mouth.

BENEFITS AT A GLANCE:

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

INCI NAME:

Sorbitol

PHYSICAL ASPECT:

Odorless, white or off-white crystalline powder

ORIGIN:

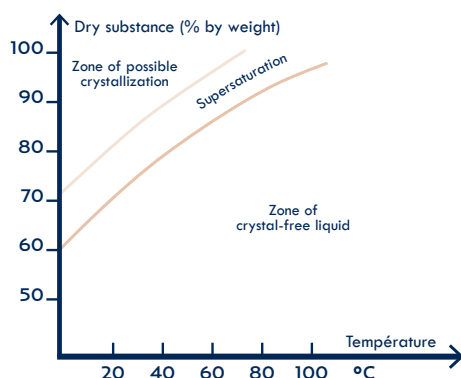
Corn/Wheat starch

SPECIFIC FEATURES:



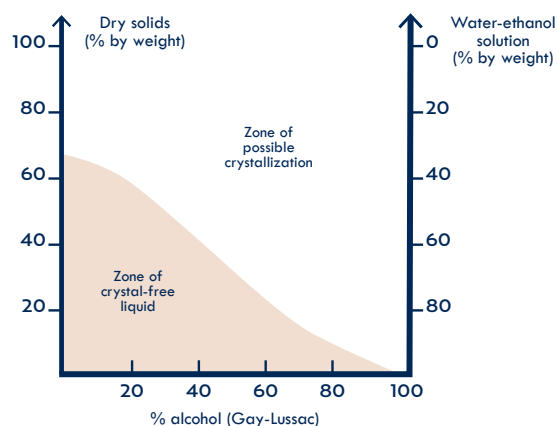
- Very high solubility

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.
- **Thermal stability**
Resistant to heat.
- **Viscosity**
At equivalent temperature and concentration, Beauté by Roquette® PO 160 solutions shows a higher viscosity than those of other polyols.

RECOMMENDED APPLICATIONS:

Oral care, Skin care, Colour cosmetics,
Hair care

RECOMMENDED USE LEVELS:

0.5 to 50%

pH OF USE:

3 - 10

APPLICATION GUIDELINES:

Incorporate into the water phase

ECOLOGICAL PROFILE:

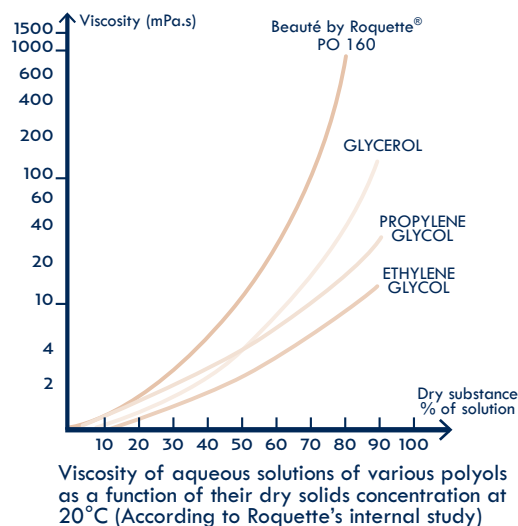
Derived from 100% vegetal feedstock

ISO 16128 Ino* = 1

Readily biodegradable (OECD 301)



* Natural Origin index = Number of natural carbon atoms/Total number of carbon atoms (natural 14 & non natural)



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 - Regulation for cosmetics

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

FORMULATION EXAMPLE:

CLEANSING POWDER

	INCI NAME	COMMERCIAL NAME (SUPPLIER)	%
PHASE A	Sodium bicarbonate	Sodium bicarbonate	40.00
	Citric acid	Citric acid	24.00
	Sodium Lauryl Sulfate 95%	Texapon K12G (BASF)	25.00
	Sorbitol	Beauté by Roquette® PO 160 (Roquette)	3.00
	Gluconolactone	Beauté by Roquette® GA 290 (Roquette)	1.00
PHASE B	Simmondsia Chinensis (Jojoba) seed oil	Jojoba oil (Jan Dekker)	4.00
	Butyrospermum Parkii (Shea) Butter	Shea Butter (Cooper)	3.00
	Dyes/Pigments		QS
	Fragrance	Sunshine 11012/58 (Robertet)	0.30

PROCESS

- 1/ Grind powders of Phase A until fully homogeneous.
- 2/ Heat Phase B up to 50°C
- 3/ Blend Phase A with Phase B with the grinder

- 4/ To form beads: add approx. 2% demineralized water to blend A+B, to obtain a kneadable paste.
From the paste into small beads.
Air dry at room temperature (humidity <50%) for 1-2 days until all water has evaporated

FORMULATION SPECIFICATIONS

ASPECT	WHITE OR COLOURED POWDERY BEAD
pH	5.8 - 6.4
VISCOSITY	NA
STABILITY	1 MONTH AT 50°C AND 3 MONTHS AT ROOM TEMPERATURE AND 40°C