USA: 103 Main Ave., Elmwood Park, NJ 07407 | (201) 791-8700 | www.grantinc.com

Gransil PSQ

INCI NAME

Polymethylsilsesquioxane

PERFORMANCE

- -High performing spherical powder
- -Provides enhanced aesthetics to formulations
 - -Delivers excellent slip, fluidity and overall skin feel
 - -Optimized soft focus, light diffusion and wrinkle correction
 - -Strong de-tackifying and anti-caking properties
- -Non-thickening effect
- -Excellent water-repellency and resistance

FORMULATION

- -Can be formulated into O/W emulsions, W/O emulsions and anhydrous systems
- -Applications include skincare, color cosmetic, sun care and hair care formulations

Technical Support? formula@grantinc.com

PHYSICAL PROPERTIES

Appearance	White powder
Odor	Odorless
Non-Volatile Matter, wt% (105°C, 1.5g, 3hrs, Gravity Oven)	97.00 – 100
Loss on Drying, wt% (105°C, 1.5g, 1hr, Gravity Oven)	0 - 1.00
Average Particle Size, μm Particle Size Range Small Particles <2μm, % Large Particles >7μm, %	4 – 6 2 – 10 5.0 Max. 10.0 Max.
Heavy Metals, ppm Arsenic, ppm	<20 <2
Methanol, %	<0.1
<pre>pH (2% Solution in water/methanol = 1:1)</pre>	6.00 - 8.00
Shelf Life	Three years in a closed container
PACKAGING	20 kg drum

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Grant Industries Powder Technology Quick Reference Guide

Two Main Product Categories:

- 1. Elastomer Powders
- 2. Microsphere Powders
- 1. Elastomer Powders

Key Benefits-

- -matte appearance
- -oil thickening, sebum absorption
- -cost-effective way to obtain elastomer "gel" feel
 - -disperse in oil (D5, hydrocarbon, etc.) at suggested ratio
- -soft cushioning effect

Products-

- -Gransil EP-LS: purest form (99%) of Polysilicone-11 elastomer
 - -1% Laureth-12 to prevent agglomeration
 - -most economical offering of Polysilicone-11
 - -high shear requirement
- -Gransil ECW: surface treated w/ carnauba wax
 - -easy to disperse, no high shear requirement
 - -enhanced cushioning and adhesion
- -Gransil EPSQ: provides unique spongy texture
 - -enhanced thickening ability, highest oil absorption
 - -good absorption of glycols and glycerin
- 2. Microsphere Powders

Key Benefits-

- -soft focus, light diffusion, wrinkle correction
- -provides good slip, fluidity, excellent de-tackifying properties
- -excellent skin feel, non-thickening, thixotropic

Products-

- -Gransil PSQ: polymethylsilsesquioxane
 - -spherical powder, 4-6 average micron size
 - -oil dispersible
- -Gransil PSQ-45: polymethylsilsesquioxane
 - -spherical powder, 4.5 average micron size
 - -oil dispersible
- -Granhydrosil PSQ-W-GL (NP): PSQ dispersed in glycerin
 - -non-tacky delivery of glycerin
 - -excellent skin hydration and moisturizing effect
 - -paraben free
- -Granpowder USQ: PSQ/Polyurethane powder blend
 - -enhanced soft feel and light diffusion properties
 - -dual peak distribution of particle size for performance optimization