

# SeleGEM<sup>®</sup>

A Development Product By Selecor<sup>®</sup> Technologies

## Fine Powder Filler/Reinforcement

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### **Suggested Uses:**

Upholstery foam; Insulation: polyurethane-, rubber- or latex-based; Kitchen and bathroom fixtures; Boats; Flooring; Fire-resistant paper, caulk and cardboard; Tofu coagulation; Beer and water clarification; Calcium enrichment in foods; pharmaceuticals and cosmetics

### **Advantages in Plastics**

- Cools flames by emitting 20% water vapor
- Non-toxic
- Processable in thermosetting and low temperature curing polymers, coatings and sealants
- Soft – less machine and tool wear
- Increases strength, stiffness and impact resistance
- Improves surface appearance
- Gives Class A smooth surface for painting or metalizing
- Improves scratch and mar resistance
- Reduces raw material cost
- Partially substitutes for costly titanium dioxide pigments
- Economical

## Product Properties

Data – Typical Values

Composition	Calcium Sulfate
Physical Appearance	White Powder
pH	7.0
Specific Gravity	2.32 g/cc 26 lb/ft <sup>3</sup>
Bulk Density	(0.42 g/cm <sup>3</sup> )
Oil Absorption	65/g/100 ml
Moh Hardness	1.2 – 2.0
Refractive Index	1.5526
Decomposes/lose	
Water of crystallization	128C
Thermal Conductivity	1.3 W/m.K
Linear Thermal	
Expansion Coefficient	11.54 in./in./degrees C x 10 <sup>-6</sup>
Specific Heat	1109.0 J/kg.K
Solubility	0.233 g/100 ml
Dielectric Constant	2.8
	L 95.63
	a 0.56
Color/	b 1.67
Brightness	h 71.52
	Berge Brightness 80.8
	Yellowness (ASTM E 313) 3.12

Price Available on Request

### **Additional Advantages**

- Low thermal conductivity – keeps heat in hot tubs and spas
- Low refractive index produces an onyx effect in polyesters, epoxies and acrylics
- Low dielectric strength, good for potting and encapsulating electronic components

Product property values are typical and are subject to natural variation; they should not be interpreted as a binding specification. When a value is critical, please contact us at the address below to confirm the product value for your shipment.