



## GELSIL<sup>®</sup> AS-150



**Glassven** has developed advanced technologies to provide high performance silicas and sodium aluminum silicates with a wide range of structure and morphology in order to deliver different benefits ideally suited to meet the most challenging customer's needs.

Our manufacturing expertise enables us to precisely control the size and shape of the particles. These parameters directly influence the oil absorption and optical properties in final applications.

**GELSIL<sup>®</sup> AS-150** is an amorphous sodium aluminum silicate powder used as an **outstanding gloss control agent** in semi-gloss and matting systems.

This product also offers a **cost savings solution** by replacing titanium dioxide (TiO<sub>2</sub>) up to 30% once reached the maximum PVC with mineral fillers, adding value with superior whiteness level, contrast ratio and scrub resistance.

**GELSIL<sup>®</sup> AS-150** does not replace mineral fillers but titanium dioxide. It is considered a high performance and functional filler because it provides an optimum spacing among TiO<sub>2</sub> particles resulting in improved final properties, attributable to its small particle size, tight distribution and shape, what helps to scatter the light efficiently and observe a gloss-controlled finishing.

Glassven products are considered inert, non toxic powder for the human being and the environment.

## ADVANTAGES

**GELSIL<sup>®</sup> AS-150** is an unique sodium aluminum silicate with innovative structure and fine particle size which combines **outstanding flattening properties** and **proved cost reduction** by replacing TiO<sub>2</sub> in waterborne (interior and exterior) and solvent based formulations. Among the multiple benefits of GELSIL<sup>®</sup> AS-150 are:

- Easy dispersion and fast incorporation
- Superior performance as flattening agent
- Excellent opacity and whiteness level
- Optimized particle size distribution , viscosity control and pH regulation
- Proved cost reduction by TiO<sub>2</sub> replacement up to 30%
- Delivers smooth and uniform finishing
- Increases the tint strength in colored paints
- Improved leveling, washability, abrasion and scrub resistance
- Anti-yellowish agent with UV and weathering protection. Reduces the tendency to pick up dirt
- Anti-sagging , anti-settling effect and storage stability
- Highly recommended for paints, coating, printing inks, textile inks, wall paper, newsprint paper, coated and powder coatings

# PHYSICAL-CHEMICAL DATA

PROPERTIES	UNITS	TYPICAL VALUES*
Loss on Drying (2h at 105 °C)	%	5
pH Value (5% Slurry)	-	10
DBP Oil absorption	ml/100g	150
Average Particle Size (d50)	µm	7
BET Surface Area	m <sup>2</sup> /g	70
Density	g/l	160
Form	-	Powder

\* The values in this chart are not specifications. The data shows only typical values on the analysis of spot samples.

## PRODUCT QUALITY

- GELSIL® products are produced under strict quality controls based on advanced technologies, following GMP requirements, being tested and certified in laboratory in-site.

## PACKAGING AND STORAGE

- 20 Kg. paper bags, palletized and shrink-wrapped.
- It must be stored in confined, dry and odorless places. GELSIL products can be handled in the same way that any other inert material. The maximum length of storage time is up to one year.

## CAUTIONS AND SAFETY

- Physiological effects: Inert, odorless and non-toxic. During its use, a dust mask must be worn due to it could irritates breathing system.
- Glassven is committed to assure the health, safety and well-being of its employees during the manufacturing, handling, storage and distribution of chemical products.



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### Disclaimer

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