

Specialty filler

# SPHERILEX® DP-0112

## DESCRIPTION

- SPHERILEX® DP-0112 is a precipitated amorphous (crystalline-free) silica with uniquely spherical particle shape and very narrow particle size distribution.
- SPHERILEX® products are available with different particle sizes, but all grades are based on a new patented synthesis process that directly controls particle morphology during the precipitation step. As a result, this new range of silica products provides a unique balance of performance benefits.
- SPHERILEX® DP-0112 has larger particle size, which is beneficial for properties like burnish and scrub resistance and may produce some degree of matting effect in certain systems, such as thin film applications and waterborne clear finishes.

## KEY BENEFITS

- excellent mar and burnish resistance
- excellent washability and scrub resistance
- low viscosity at high loading levels
- very low binder demand
- very low water/solvent demand in the grind process

## EFFECT

### Mar and burnish resistance



### Washability and scrub resistance



### Gloss reduction



### Smooth Surface Profile



## SUITABILITY

solventborne



direct grind



waterborne



● not suitable ● partly suitable ● suitable

## TYPICAL APPLICATIONS

- Architectural paints
- Decorative coatings
- Floor coatings
- Wood coatings

## TECHNICAL DATA

delivery form	free-flowing powder
DOA absorption	50 ml/100g
loss on drying	<7 %
particle size, d <sub>50</sub>	10 µm
particle size, d <sub>95</sub>	<25 µm
pH value, 5% in water	7.5
sodium sulfate content	<1.0 %
specific gravity	2.0 g/cm <sup>3</sup>
specific surface area (BET)	<12 m <sup>2</sup> /g

## RECOMMENDED ADDITION LEVEL

As supplied calculated on pigment: 15 - 25 %

As supplied calculated on total formulation: 3 - 10 wt-%

## PROCESSING INSTRUCTIONS

It is recommended that this product be added, as supplied, to the grind.

## HANDLING & STORAGE

This product is best used within 24 months of its manufacture. Evonik precipitated silica products are extremely chemically stable. However, precipitated silicas, including this product, can absorb moisture and/or volatile organic compounds from the surrounding atmosphere. Therefore, we recommend storage in original sealed packaging and in a dry, cool place and removed from volatile organic substances. Even if a product is stored under these conditions, over periods of time the material may still pick up enough moisture to exceed the moisture content that is specified "as packaged" or at the time of packaging.

## MSDS & REGULATORY INFORMATION



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