

Calcium Silicate for Anti-Caking and Free Flow

ZEOFREE®



Caking and lumping can create serious problems for powdered food products during production, processing, storage and customer use. Evonik has solved these problems for many customer applications with its outstanding line-up of high performing silica and silicate products and stands ready to remedy your issues today.

BENEFITS OF EVONIK SILICA AND SILICATES AS FREE-FLOW AND ANTI-CAKING ADDITIVES

- **Consistent metering**
Free flowing powders move more consistently through the manufacturing process, meter well and allow uniform and consistent filling of end containers.
- **Improved product quality and consistency**
Less off-spec or reject material from lumping and caking.
- **Increased production throughput**
Free-flowing powder offers faster production rates and increased capacity.
- **Increased satisfaction**
Improve your customer's experiences with free-flowing, easy to use powder products.

PARTICULAR BENEFITS WITH CALCIUM SILICATE GRADES FROM EVONIK

Besides the well-known Silica types, Evonik offers calcium silicate grades, with particular benefits for the food industry.

ZEOFREE® 600

This calcium silicate grade has an extremely high absorption capacity, and is ideally suited to render highly hygroscopic ingredients free-flowing. The particle size is very fine and the product disperses easily without white specs.

ZEOFREE® 5133

This is a low dusting calcium silicate grade, which is easy to handle and to meter. It is particularly effective in promoting flowability in process, prevents adhesion of powder on spray dryer walls and caking of finished products.

PRODUCT	OIL ABSORPTION* (ml/100g)	MEDIAN PARTICLE SIZE** (µm)	LOSS ON DRYING*** (%)	pH	BET SURFACE AREA (m ² /g)	BULK DENSITY (kg/m ³)
ZEOFREE® 600	475	8	<10	10	250	95
ZEOFREE® 5133	130	11	<7	10	60	200

* Linseed oil

** Laser diffraction (Horiba)

*** LOD 2h/105 °C

The given data are typical values. Specifications on request. Evonik strives for quality, consistency and reliability. Evonik precipitated silica and silicates comply with various global regulatory requirements, i.e. the purity criteria in Regulation (EU) 231/2012 for E552 and FCC Calcium silicate monograph. Please contact Evonik for specific information regarding regulatory approvals.

The mentioned Silica products manufactured by Evonik are certified as Kosher, Pareve, Kosher for Passover and Halal.

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MORE SILICA GRADES FROM EVONIK SEE ALSO

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