

TRISYL® 300

Silica for Edible Oil Refining

Product Description

TRISYL® 300 Silica for Edible Oil Refining is synthetic amorphous micronized silica hydrogel appearing as white free-flowing powder.

Product Characteristics

The following specification parameters will be stated in our Certificate of Analysis.

Property	UOM	Value	Test Method
Loss on Drying (160°C)	%	57.0 - 63.0	GRACE Q 009
Average Particle Size - Malvern® Mastersizer® 2000	µm	15.7 - 25.7	GRACE Q 013
SiO ₂ Content (dry basis)	%	99.0 min.	GRACE Q 271

Typical Properties and Recommended Applications

The following typical properties data is given for informational purposes only and is not to be interpreted as product or in-process specifications.

Property	UOM	Value	Test Method
Tapped Bulk Density	g/l	500	GRACE Q 010
pH (15% aqueous suspension)		2.5	GRACE Q 014
Specific Surface Area (BET)	m ² /g	700	GRACE Q 058

TRISYL® 300 Silica for Edible Oil Refining can be used in the following operations:

- Refining of all animal and vegetable oils and fats
- Refining processes when there is a need to reduce the phosphorous level in feedstock which contains a high level of non-hydratable phospholipids
- Caustic refining, with reduced or no water washes (modified caustic refining process)
- De-nickeling process, after oil hardening

Packaging Information

The standard packaging for TRISYL® 300 Silica for Edible Oil Refining is:

25 kg/bag 18 bags/pallet 450 kg/pallet pallet size: 800 x 1200 mm
700 kg/big bag 1 big bag/pallet 700 kg/pallet pallet size: 1000 x 1000 mm

Details on silo truck and bulk tank delivery are available on request.

Handling & Storage Recommendations

Like all other finely powdered products, TRISYL® 300 Silica for Edible Oil Refining has a tendency to develop dust. During handling, precautions should be taken against electrostatic discharges. Additional information can be found in our Safety Data Sheet (SDS).

Storage in a dry warehouse is recommended. Open packages should be resealed to prevent contamination of the product. The material in standard packaging should be used within 6 months from the date of production. Provided the storage recommendations are followed, silica stored beyond the recommended shelf life are typically fit for use. However, it is advised that a quality control test is performed on the properties relevant to the application.

Keep product from freezing.

Health & Safety Information

TRISYL® 300 Silica for Edible Oil Refining is synthetic, amorphous silica, which is manufactured and handled by GRACE according to HACCP concept, considering the requirements of this standard. Additional information can be found in our Safety Data Sheet (SDS). Please refer also to national laws and regulations.

Certification

- DIN EN ISO 9001
- DIN EN ISO 14001
- DIN EN ISO 50001

Other Information

The information contained herein is based on our testing and experience and is offered for the user's consideration, investigation and verification. Since operating and use conditions vary and since we do not control such conditions, we must **DISCLAIM ANY WARRANTY, EXPRESSED OR IMPLIED**, with regard to results to be obtained from the use of this product. Test methods are available on request.