

Product Information

SYLOID® 244 FP (MADE IN USA)
Silica for Food and Pharmaceutical Applications

Product Description

SYLOID® 244 FP material is synthetic amorphous silica appearing as a white free flowing powder. It meets the test requirements for silicon dioxide as described in the latest edition of United States Pharmacopoeia/National Formulary (USP/NF), for silica, dental type as described in the latest edition of the European Pharmacopoeia (EP), and for the hydrated silicon dioxide as described in the latest edition of Japanese Pharmaceutical Excipients. SYLOID® 244 FP material also meets the test requirements of Food Chemicals Codex (FCC), the latest edition of Japan's Specifications and Standards for Food Additives (D326) and European Directive 2008/84/EC for E 551.

Product Characteristics

Property	Unit	Value	Test Method
Loss on Drying @ 145°C	Wt %	5.0 max.	GRA 1702
Loss on Ignition @ 1832°F	Wt %	8.5 max.	GRA 1701
Silica as SiO ₂ , Ignited basis	Wt %	99.4 min.	GRA 1260
pH (5 % aq. suspension)		5.0-8.0	GRA 1200
Sulfate as SO ₄ (D.B.)	%	0.1 max.	GRA 1260
Aluminum as Al ₂ O ₃ (D.B.)*	ppm	2000 max.	GRA 1260
Iron as Fe ₂ O ₃ (D.B.)*	ppm	400 max.	GRA 1260
Soda as Na ₂ O (D.B.)*	ppm	2000 max.	GRA 1260
Calcium as CaO (D.B.)	ppm	1400 max.	GRA 1260
Chloride (D.B.)*	%	0.1 max.	GRA 1231
Heavy Metals*	ppm	20 max.	GRA 1250
Lead as Pb*	ppm	4.5 max.	GRA 1250
Arsenic*	ppm	2.0 max.	GRA 1250
Mercury as Hg*	ppm	1 max.	GRA 1251
Color L – Value	% of std.	97 min.	GRA 1432

*Testing is performed on a monthly basis in accordance with the IPEC-PQG GMP Guide for Pharmaceutical Excipients.

Typical Properties and Recommended Applications

The following typical properties data are given for informational purposes only, and are not to be interpreted as product or in-process specifications. To receive further product and handling information please contact our local sales office.

Property	Unit	Typical Value
Sodium Sulfate	%	<0.5%
Oil Adsorption	g/100g	250
Apparent Bulk Density	g/cc	0.07
Compacted Bulk Density	g/cc	0.1

SYLOID® 244 FP silica is a high pore volume silica gel with a large internal surface area. It has a strong affinity for moisture and organic based liquids. SYLOID® 244 FP silica can adsorb up to 1.6 ml of liquid per gram. SYLOID® 244 FP silica is particularly recommended as a glidant, tableting-aid and carrier for pharmaceutical and personal care products. It has excellent compatibility with active ingredients.

Packaging Information

SYLOID® 244 FP silica is supplied in 30 lb. bags

Handling & Storage Recommendations

Like all other finely powdered products SYLOID® 244 FP silica has a tendency to develop dust. During handling, precautions should be taken against electrostatic discharges. Additional information can be found in our Material Safety Data Sheet (MSDS). Storage in a dry warehouse is recommended. Open packages should be resealed to prevent contamination of the product. The material should be used within 12 months from the date of production. Provided the storage recommendations are followed, silica gels stored beyond the recommended shelf life are typically fit for use. However, it is advised that a quality control test be performed on the properties relevant to the application.

Health & Safety Information

SYLOID® 244 FP material is synthetic amorphous silica. Full EHS information can be found in the Material Safety Data Sheet (MSDS). Please also refer to national laws and regulations.

ISO Certification

SYLOID® 244 FP silica is manufactured in an ISO 9001 registered facility in compliance with the IPEC-PQG Good Manufacturing Practices Guide for Pharmaceutical Excipients.

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.

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