

USG SNOW WHITE® BRAND F&P ANHYDROUS CALCIUM SULFATE FILLER SOUTHARD, OK

DESCRIPTION

USG Snow White® Brand food- and pharmaceutical-grade (F&P) Anhydrous Calcium Sulfate Filler is made by high temperature calcinations of select, high purity gypsum which is then ground and air separated into a bright, white powder. It is used by the food and pharmaceutical industries as an economical and FDA-approved (Generally Recognized as Safe (GRAS)) source of supplemental calcium.

USG Snow White F&P Anhydrous Calcium Sulfate Filler is ideal for use in applications such as baking, icing, calcium supplement and pharmaceutical.

TYPICAL PHYSICAL PROPERTIES

Specific Gravity	3.0
pH—10% Slurry	10.4
Mohs Hardness ⁽¹⁾	2-3
Refractive Index ⁽¹⁾	1.6
Water Loss 482 °F (250 °C)	0.33%
Solubility (70 °F (21 °C)) per 100 cc of H ₂ O	0.26 grams
Loose Bulk Density (lbs./ft. ³)	50
Packed Bulk Density (lbs./ft. ³)	70
L, a, b values ⁽²⁾	90.4, 1.2, 3.4
Median Particle Size (microns) ⁽³⁾	5.5
Top Particle Size (microns)	124

Typical Chemical Analysis	%
Total Calcium	29.2
CaO	40.92
SO ₃	58.04
CaSO ₄	98.7
CaCO ₃ • MgCO ₃	0.5
CaCO ₃	0.3
SiO ₂ and Insolubles	0.13
Fe ₂ O ₃	0.01
Al ₂ O ₃	0.12
Aggregate	0.3
Free Moisture at 45 °C (113 °F) ⁽⁴⁾	0.1
Combined Moisture at 225 °C (437 °F) ⁽⁴⁾	0.5

⁽¹⁾ Literature value

⁽²⁾ HunterLab Colorflex EZ Colorimeter L,a,b values

⁽³⁾ Microtrac S3500 FRA

⁽⁴⁾ Computrac Moisture Analyzer Max 2,000, 4,000, 5,000

STANDARDS

USG Snow White F&P Anhydrous Calcium Sulfate Filler is guaranteed to meet the specifications of the Food Chemicals Codex and the National Formulary, as listed below:

	Food Chemicals Codex	National Formulary
Arsenic	3.0 ppm max.	3.0 ppm max.
Selenium	30.0 ppm max.	30.0 ppm max.
Fluorine	30.0 ppm max.	30.0 ppm max.
Heavy metals	—	10.0 ppm max.
Iron	—	100.0 ppm max.
Lead	2.0 ppm max.	—
Calcium assay	98.0% min.	98.0% min.

TYPICAL PARTICLE SIZE DATA

Sieve Analysis ^①	%
Through 50 mesh (300 microns)	100.0
Through 100 mesh (150 microns)	99.9 – 100.0
Through 200 mesh (75 microns)	99.9 – 100.0
Through 325 mesh (44 microns)	97.0 – 100.0

Microtrac Analysis ^② % Smaller Than	%
22 microns	80.0
11 microns	55.0
5.5 microns	30.0
4.62 microns	24.0
1.945 microns	4.0
0.972 microns	0.1

^① Alpine Jet Air Sieve

^② Microtrac S3500 FRA

PRODUCT INFORMATION

See usg.com for the most up-to-date product information.

CAUTION

Dust from mixing may cause irritation to eyes, skin, nose, throat and upper respiratory tract. Use only in a well-ventilated area, wear a NIOSH/MSHA-approved respirator. Wear eye protection. If eye contact occurs, flush thoroughly with water for 15 minutes. If on skin: Wash with plenty of water. If swallowed or irritation persists, call a physician. For more information call Product Safety: 800 507-8899 or see the SDS at usg.com

KEEP OUT OF REACH OF CHILDREN.

TRADEMARKS

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SAFETY FIRST!

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read applicable SDSs and literature before specification and installation.

STORAGE AND USE

When properly used, USG Snow White F&P Anhydrous Calcium Sulfate Filler is easy to work with. Keep indoors at temperatures between 65 °F – 75 °F (18 °C – 24 °C) and 45% – 55% RH. Do not stack more than two pallets high. Keep from drafts. Rotate stock. USG Snow White F&P Anhydrous Calcium Sulfate Filler should be used within one year of the manufacturing date located on the package. Always follow handling and use directions and safety warnings on the package.

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usg.com

Manufactured by
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