

## FEATURES & BENEFITS

SNOBRITE® white extender pigments are produced from airfloated intermediate kaolins. With a plate like crystal structure and high aspect ratio SNOBRITE provides good reinforcing properties, increased hardness and stiffness, and improved resistance to abrasion and tear. Its tendency to slowly build viscosity makes SNOBRITE a cost effective formulating tool to enhance performance without adversely affecting production rates. SNOBRITE additions also improve critical working properties, including extrusion, calendering, mold release and handling.

In molded and extruded rubber, SNOBRITE can be loaded to relatively high levels and still produce pliable compounds with good durometer values. Unlike finer particle clays, SNOBRITE will not absorb accelerators or adversely affect the cure rate. This is especially important in precision parts where shrinkage and extrusion properties need to be balanced with mechanical strength, hardness and resistance to tear. The high loading and low shrinkage characteristics of SNOBRITE are valued in a wide range of synthetic and natural rubber products, including roofing, footwear, wire and cable jacketing, hose, mill rods, commercial and residential roll matting, soft and novelty rubber goods and polyester gunks.

Selectively mined to maximize whiteness and GEB values, SNOBRITE is particularly effective in systems where color is critical. Combined with light scattering properties which mimic more expensive opacifiers, SNOBRITE offers functional performance in a wide range of adhesives, sealants, caulking compounds, and mastics. In alkyd and water based coatings, the combination of particle shape and particle size distribution operate to improve film properties, including surface finish, permeability, scrub resistance, and hiding power.

All SNOBRITE grades are mined, processed and sized under rigid Covia QIP<sup>SM</sup> statistical quality assurance programs. The result is consistent physical properties and uniform particle size distributions for reliable performance.

## PARTICAL SIZE ANALYSIS AND PROPERTIES

*Typical Mean Values. These Do Not Represent a Specification.*

|  | Mesh Size     |         | SNOBRITE® Grades |         |         |         |         |
|--|---------------|---------|------------------|---------|---------|---------|---------|
|  | ASTM E-11     | MICRONS | SP               | 75      | 68      | 60      | 75HB    |
| Typical mean<br>% retained on<br>individual sieves | 140           | 109     | .04              | —       | —       | —       | —       |
|  | 200           | 75      | .10              | <0.25   | <0.25   | <0.30   | <0.25   |
|  | 270           | 53      | .23              | —       | —       | —       | —       |
|  | 325           | 45      | .29              | <0.50   | <0.30   | <0.70   | <0.50   |
|  | 400           | 38      | .48              | —       | —       | —       | —       |
| Subsieve Analysis<br>% Passing                     | —             | <20     | 96               | 99      | 99      | 99      | 99      |
|  | —             | <10     | 86               | 96      | 94      | 93      | 97      |
|  | —             | <5      | 73               | 91      | 86      | 80      | 92      |
|  | —             | <2      | 51               | 80      | 68      | 60      | 80      |
|  | —             | <1      | 37               | 73      | 56      | 46      | 71      |
|  | —             | <.5     | 21               | 58      | 40      | 34      | 56      |
| Median Particle Size (μ)                           | SEDIGRAPH     |         | 2.0              | 0.5     | 0.9     | 1.2     | 0.5     |
| Surface Area (m <sup>2</sup> /g)                   | ASTM D-1993   |         | 11               | 24      | 21      | 17      | 24      |
| Oil Absorption (g/100g)                            | ASTM D-281    |         | 42               | 42      | 40      | 35      | 42      |
| Brightness   | GEB           |         | 74               | 80      | 80      | 78      | 80      |
| Lab Value L  | SPECTROMETRIC |         | 91               | 94.0    | 94.0    | 94.0    | 94.5    |
| A  |               |         | 0.9              | 0.2     | 0.3     | 0.2     | 0.1     |
| B  |               |         | 5.3              | 5.0     | 5.5     | 5.0     | 3.9     |
| pH (in solution)                                   | AFS 113-87-S  |         | 5.0-8.0          | 6.0-8.0 | 6.0-8.0 | 5.0-8.0 | 6.0-8.5 |
| Moisture Content                                   | AFS C-566     |         | <1.0             | <1.0    | <1.0    | <2.0    | <1.0    |

## CHEMICAL ANALYSIS

Typical Mean Values. These Do Not Represent a Specification.

|  | Typical Mean Percent by Weight |       |       |       |       |
|--|--------------------------------|-------|-------|-------|-------|
|  | SP                             | 75*   | 68**  | 60*** | 75HB  |
| Silicon Dioxide (SiO <sub>2</sub> )              | 45.00                          | 45.50 | 45.50 | 45.90 | 45.40 |
| Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> ) | 38.50                          | 38.00 | 38.25 | 38.00 | 38.00 |
| Titanium Dioxide (TiO <sub>2</sub> )             | 1.65                           | 1.65  | 1.55  | 1.50  | 1.60  |
| Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )     | 0.32                           | 0.90  | 0.70  | 0.41  | 0.90  |
| Calcium Oxide (CaO)                              | 0.10                           | 0.25  | 0.20  | 0.03  | 0.20  |
| Magnesium Oxide (MgO)                            | 0.13                           | 0.03  | 0.05  | 0.06  | 0.05  |
| Potassium Oxide (K <sub>2</sub> O)               | 0.10                           | 0.23  | 0.23  | 0.23  | 0.20  |
| Sodium Oxide (Na <sub>2</sub> O)                 | 0.08                           | 0.04  | 0.04  | 0.04  | 0.05  |
| Loss on Ignition (LOI)                           | 13.70                          | 13.50 | 13.48 | 13.40 | 13.60 |

\* Prior Grade Designations: SNOBRITE AF, HW; APEX A, K

\*\* Prior Grade Designation: APEX R

\*\*\* Prior Grade Designation: SNOBRITE D6

## SHIPPING/ORDERING INFORMATION

- Shipping Point: McIntyre, GA
- Originating Carrier: Norfolk Southern
- Availability: Bulk, IBC, 50 lb Bag  
Truck and Rail

### CUSTOMER SERVICE

US & Canada: 1-800-243-9004

Fax: 1-800-243-9005

3 Summit Park Drive, Suite 700, Independence, OH 44131 | CoviaCorp.com

GRADE NUMBERS INDICATE RELATIVE VALUES OR RESULTS. THEY ARE NOT A SPECIFICATION OR WARRANTY OF PERFORMANCE.

Health Hazard Warning: Long term exposure can cause pneumoconiosis. This material contains crystalline silica which can cause pneumoconiosis. Pneumoconiosis is a respiratory disease, which can result in delayed, disabling and sometimes fatal lung injury. IARC and NTP have determined that crystalline silica can cause lung cancer in humans. Risk of injury is dependent on the duration and level of exposure. Avoid creating dust when handling, using or storing. Use only with adequate ventilation to keep exposure below recommended exposure limits. Follow OSHA or other relevant safety and health standards for "Particulates not otherwise classified" (PNOC) and for the form of crystalline silica called Quartz. Current safety data sheet, containing safety information, is available and should be consulted before usage.

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Kaolin/Silica Containing

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