

Barium Sulfate

Cimbar, Bartex, ExBar W, MitiWite, Bariscan

White, Natural, 98% Purity Grades & Synthetic/Chemically Modified Grades

Typical Physical & Chemical Properties

| | |
|--|-------------|
| Barium Sulfate (BaSO ₄) | 98.0 – 99.0 |
| Silica | <0.60 |
| Ferric Oxide (Fe ₂ O ₃) | 0.02 |
| Refractive Index | 1.60 |
| Loss on Ignition (H ₂ O) | 0.75 |
| Specific Gravity | 4.40 |
| pH | 7.5 – 9.5 |

WHITE COLOR, NATURAL – 98% PURITY – GA, IN, TX, TN

WHITE, SYNTHETIC/BENEFICIATED – 98% PURITY – GA, TX

| Product | Bartex 10 | Cimbar EX Bartex 65/OWT ExBar W1 | Cimbar UF Bartex 25 ExBar W2 | Cimbar XF ExBar W3 | ExBar W4 | Cimbar 325 Bartex 80 ExBar W 400 W325* | Cimbar BF (Blanc Fixe – Precipitated) | MitiWite B1 | MitiWite B10 | Bariscan Ultra (USP)** | Bariscan Elite (USP)** |
|--|-----------|--|------------------------------------|-----------------------|----------|---|---|-------------|--------------|---------------------------|---------------------------|
| Median Particle Size | 1.0 | 1.3 – 1.4 | 2.0 | 3.1 | 4 | 7 – 9 | 0.7 | 1.5 | 10 | 10 | 1.5 |
| Hunter “L” Brightness | 96 | 96 | 95 - 96 | 93 - 95 | 93 - 95 | 93 - 95 | 98 | 97 - 98 | 97 - 98 | 97 - 98 | 97 - 98 |
| Oil Absorption | 16 | 15 | 13 | 13 | 12 | 10 | 16 | 16 | 10 | 10 | 13 |
| Retained 325 Mesh (%) | 0 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 | 0.5 | 0.5 | 0 |
| Bulk Density (lb./ft ³) Compacted | 97 | 100 | 100 | 115 | 125 | 150 | 80 | 100 | 150 | 150 | 100 |
| Hegman | 7+ | 7 | 6.5 | 6 | 5 | 4 | 8 | 7 | 3 | 3 | 7 |
| Free Moisture Max. | 0.2 | 0.15 | 0.15 | 0.15 | 0.10 | 0.10 | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Markets | | | | | | | | | | | |
| Paint/ Coatings | X | X | X | X | X | X | X | X | X | X | X |
| Powder Coatings | X | X | X | X | X | X | X | X | X | X | X |
| Plastics/Elastomers | X | X | X | X | X | X | X | X | X | X | X |
| Adhesives/Sealants | | | | X | X | X | | | X | X | |
| Friction | | | | | | X | X | | | | |
| TiO ₂ Extender | X | X | X | X | | | X | X | | | X |
| Battery Expander | X | | | X | | | X | X | | | |
| Carpet Backing | | | | | | X | | | | | |
| Refractories | | | | X | | X | | | | | |
| X-ray Shielding | | | | | | X | | | X | X | |
| Copper Smelting/ Mold Release | | | | X | | X | | | | | |
| Ceramics | | | | | | X | | | | | |
| Sound Deadening | | | | | | X | | | | | |

*Slightly Coarser Grade than W400 - LOCATIONS – Chatsworth, GA, Mt. Vernon, IN, Houston, TX, Dyersburg, TN, Corpus Christi, TX

Cimbar Resources, Inc. | 49 Jackson Lake Rd. | Suite O | Chatsworth, GA 30705

1-800-852-6868

www.cimbarresources.com

**USP = United States Pharmacopeia – Bacteria/Mold testing done on these products

CIMBAR

RESOURCES INC

Revision: 1
September 26, 2023

Barium Sulfate

Barimite, ExBar, Bara, Baraweight

71% - 96% Purity, Natural, Buff Color Grades

Typical Physical & Chemical Properties

| | |
|--|-------------|
| Barium Sulfate (BaSO ₄) | 88.0 – 96.0 |
| Silica | >0.40 |
| Ferric Oxide (Fe ₂ O ₃) | 0.2 |
| Loss on Ignition (H ₂ O) | 0.75 |
| Specific Gravity | 3.7 – 4.3 |
| pH | 7.5 – 9.5 |

BUFF COLOR – 71% - 92% PURITY* - TN, TX, GA, OH

BUFF COLOR – 93% - 96% PURITY* - GA, TX, TN

| Product | Bara 325 ExBar 400 | ExBar 325 | ExBar C | ExBar 200 | Baraweight 50 | ExBar HD 2 | Barimite XF ExBar HD 3 | ExBar HD 4 | #22 Barytes ExBar HD 400 | ExBar HD 325 | Barimite 200 ExBar HD 200 |
|--|-----------------------|-----------|---------|-----------|---------------|------------|---------------------------|------------|-----------------------------|--------------|------------------------------|
| Median Particle Size | 10 | 11 | 10 | 15 | 18 | 2 | 3 | 4 | 8 | 10 | 12 - 15 |
| Oil Absorption | 10 | 10 | 12 | 9 | 4 - 5 | 13 | 12 | 12 | 9 | 8 | 7 |
| Retained 325 Mesh (%) | 2 | 2 | 2 | 10 | 8 | 0 | 0 | 0 | 0.1 | 2.0 | 2 |
| Bulk Density (lb./ft ³) Compacted | 140 | 145 | 115 | 150 | 160 | 105 | 115 | 120 | 135 | 145 | 155 |
| Hegman | 3 | 3 | 2 | 2 | 1 | 6.8 | 6 | 5 | 4 | 3 | 2 |
| Free Moisture Max. | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.2 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Markets | | | | | | | | | | | |
| Paint/Coatings | | | | | | X | X | X | X | | X |
| Powder Coatings | | | | | | X | X | | | | |
| Plastics/Elastomers | X | X | | | X | X | X | X | X | X | X |
| Adhesives/Sealants | X | X | | X | | | X | | X | X | |
| Friction | X | X | | X | | | | | X | X | X |
| Carpet Backing | | | | | X | | | | X | | |
| Refractories | | | | | | | X | | X | | |
| X-ray Shielding | | | | | | | | | X | | |
| Copper Smelting/ Mold Release | X | X | | X | | | | | | | |
| Ceramics | | | | | | | | | X | | |
| Sound Deadening | X | X | X | | | | | | X | | |

*Color ranges from 82-89 L – Color measured but not certified – LOCATIONS – Dyersburg, TN, Houston, TX, Chatsworth, GA, Wellsville, OH

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