

Biasill™

Blasting Abrasive

Product Information

Biasill™, a staurolite sand, is mined from Chemours' mineral deposits in the southeastern United States. These naturally occurring, sub-rounded to sub-angular sands are washed to ensure freedom from dust, dirt, and ultrafines. The staurolite sand is screened and magnetically separated from other heavy minerals to produce a highly uniform product. Readily available in packages and in bulk, Biasill™ is the solution for your waterjet cutting and shallow profile blasting needs.

Applications

Biasill™ is a slightly finer grade of staurolite sand than Starblast™ blasting abrasive. Biasill™ is most used where mill scale and light rust are to be removed and in applications where a shallow profile is desired. Since it is a finger grit sand, Biasill™ also can be used on softer substrates such as aluminum, composites, fiberglass, and similar materials. Biasill™ XL, at less than 1% free crystalline silica, meets the most stringent industry specification. Because of its density and uniformity, Biasill™ makes an effective waterjet cutting abrasive.

While finer than Chemours standard Starblast™, Biasill™ continues to offer the same product advantages, such as:

Greater blasting visibility due to minimal dust generation

- Lower labor costs through faster, more efficient blasting
- Less material costs due to recyclability
- More uniform blasting pattern
- Biasill™ guaranteed to contain <3% free silica, typically <2%
- Biasill™ XL guaranteed to contain <1% free silica
- Sub-rounded to sub-angular grains result in less abrasive embedment
- Electrically nonconductive



Personal Safety

For safety information, please see the product Safety Data Sheet (SDS).

Heat, electrostatic charge, or sparks can potentially be created when using this product in abrasive blasting applications. Do not perform abrasive blasting using this product in the presence of flammable or explosive vapors.

Packaging

Biasill™ abrasives are available in 50-pound multiwall paper bags, semi-bulk (1-ton and 2-ton) bags and bulk hopper rail cars. Department of Transportation (DOT) Hazard Classification: NOT REGULATED.

* Due to changing governmental regulations, such as those of the Department of Transportation, Department of Labor, U.S. Environmental Protection Agency, and the Food and Drug Administration, references herein to governmental requirements may be superseded. Each user should consult and follow the current governmental regulations, such as Hazard Classifications, Labeling, Food Use Clearances, Worker Exposure Limitations, and Waste Disposal Procedures for the products described in this literature.

Table 1. Physical and Mineral Properties of Biasill™ Abrasive

Typical Screen Analysis			
U.S. Sieve No.*	Sieve Opening, µm	Retained on Sieve, %	
		Mean	Std. Dev.
40	420	<1	—
50	300	6	1.5
70	212	26	2.3
100	150	43	1.8
140	106	19	2.0
200	75	4	1.2
270	53	1	0.6
PAN	<53	Trace	—
Grit #70/90			

* U.S. Sieve Series according to ASTM E-11-70

Mineral Composition	
	Typical, %**
Staurolite	84
Tourmaline	9
Zircon	1
Kyanite and Sillimanite	1
Quartz (Free Silica)	0.7
Titanium Minerals	0.3
Other	4

**These columns give typical values based on historical production performance. Chemours does not make any express or implied warranty that future production will conform to these typical values.

Physical Properties	
	Range
Bulk Density (loose)	136 lb/ft ³ (2179 kg/m ³)
Specific Gravity	3.7– 3.85
Hardness (Mohs)	7.0–7.5

CAUTION: Do not use or resell Chemours™ materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless agreed to by Seller in a written agreement covering such use. For further information, please contact your Chemours representative. These products may not be directly added to food, pharmaceuticals, cosmetics, or cigarette papers/filters for tobacco products.

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