Starblast™
Blasting Abrasives

Product Information

Starblast™ Blasting Abrasives

Starblast™ XL Blasting Abrasives

Starblast™ blasting abrasives are a loose blend of coarse and fine staurolite sands that are well-graded and have clean, rounded to sub-angular surfaces. Mined from Chemours' mineral deposits in the southeastern United States, these naturally occurring sands are washed to ensure freedom from dirt, dust, and ultrafines. Readily available in packages and in bulk, Starblast™ and Starblast™ XL are the best products on the market for new steel surface preparation.

Applications

Starblast™ is a general-purpose abrasive blasting media used in steel fabrication and maintenance blasting to remove rust, mill scale, and weathered coatings as well as surface preparation of other substrates, such as aluminum and concrete. Starblast™ XL, at less than 1% free crystalline silica, meets the most stringent industry and military specifications. Starblast™ abrasives, due to their density and hardness, are also effective in vapor blasting applications. Due to its density and uniformity, Starblast™ XL makes an effective water jet cutting abrasive.

Starblast™ and Starblast™ XL 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
- Starblast™ guaranteed to contain <3% free silica, typically <2%
- Starblast™ XL guaranteed <1% free silica
- Sub-rounded to sub-angular grains result in less abrasive embedment
- Electrically nonconductive
- California Air Resources Board certified
- SSPC AB-1 Certified
- Starblast™ XL is QPL approved for MIL-A22262A-SH

Chemours™

Table 1. Physical and Mineral Properties of Starblast™ and Starblast™ XL Abrasives

Typical Screen Analysis			
U.S. Sieve No.*	Sieve Opening, µm	% Retained on Sieve	
		Mean	Std. Dev.
40	420	1	1.0
50	300	9	2.7
70	212	30	4.2
100	150	44	3.8
140	106	14	3.9
200	75	2	1.4
270	53	<1	—
PAN	<53	Trace	—
Grit #54/90			

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

Physical Properties	
	Range
Bulk Density (compacted)	143–148 lb/ft^3
(2290–2370 kg/m3)	128 lb/ft^3 (2080 kg/m^3)
Bulk Density (loose)	136 lb/ft^3 (2179 kg/m^3)
Specific Gravity	3.7–3.85
Hardness (Mohs)	7.0–7.5

Mineral Composition		
	Starblast™ Typical, %*	Starblast™ XL Typical, %*
Staurolite	82	85
Tourmaline	8	7
Titanium Minerals	5	5
Zircon	1	1
Quartz (Free Silica)	1.5	0.5
Kyanite and Sillimanite	0.8	0.3
Other	1.7	1.2

* This column gives typical analyses based on historical production performance. Chemours does not express or imply any warranty guaranteeing that future production will demonstrate or continue to possess these typical properties.

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

Starblast™ abrasives are available in 50-pound multiwall paper bags, semi-bulk (1-ton and 2-ton) bags, bulk hopper rail cars, and bulk pneumatic trucks. 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.

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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