

Starblast™

Blasting Abrasive



Product Information

Starblast™ blasting abrasives are a loose blend of coarse and fine staurolite sands that are uniformly sized and have clean, rounded surfaces. Mined from Chemours mineral deposits in Northeast, Florida, the naturally occurring sands are washed to ensure freedom from dirt, dust, and ultrafines.

Applications

Starblast™ a general-purpose staurolite abrasive used in steel fabrication and bridge maintenance to remove rust, mill scale, and weathered coatings. Starblast™ XL, at less than 1% free crystalline silica, meets the most stringent industry and military specifications.

Starblast™ and Starblast™ XL offer the same product advantages, such as:

- greater blasting visibility due to considerably less dust generation
- lower labor costs through faster, more efficient cleaning
- less material costs due to reusability
- more uniform blasting pattern
- guaranteed to contain <3% free silica, typically <2%, Starblast™ XL guaranteed <1%
- rounded to subangular grains result in less abrasive embedment
- electrically nonconductive
- California Air Resources Board certified
- Starblast™ XL is QPL approved form MIL-A22262A-SH

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/m ³)
Bulk Density (loose)	128 lb/ft ³ (2080 kg/m ³)
Specific Gravity	3.6–3.85
Hardness (Mohs)	6.5–7.0

Mineral Composition		
	Starblast™ Typical, %*	Starblast™ XL Typical, %*
Staurolite Minerals (FeAl ₅ Si ₂ O ₁₂ OH)	87	90
Titanium Minerals (Fe ₂ Ti ₂ O ₇)	6	6
Kyanite (Al ₂ SiO ₅)	2	1
Zircon (ZrSiO ₄)	3	2
Quartz (Free Silica)	2	0.8

* 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

Starblast™ abrasives, as shipped, do not pose any inhalation health hazard, because Starblast™ contains essentially no particles in the respirable size range. However, if during handling or use, Starblast™ particles are broken down to a size that can be inhaled, the dust may be harmful to the respiratory system.

Chemours staurolite abrasive products may contain up to 5% crystalline silica (quartz). Long-term overexposure to respirable crystalline silica may cause silicosis. 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. Avoid breathing dust. Wash thoroughly after handling. In emergencies or when dust levels exceed OSHA time weighted average limit, dust masks or respirators approved by NIOSH for such dusts must be used.

Packaging

Starblast™ abrasives are available in 22.7-kg (50-lb) multiwall paper bags, 4,000-lb bulk bags, and in bulk carloads and truckloads. Department of Transportation (DOT) Hazard Classification:* NOT REGULATED.

* Due to changing governmental regulations, such as those in 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: Hazards Classifications, Labeling, Food Use Clearances, Worker Exposure Limitations, and Waste Disposal Procedures for the products described in this literature.

CAUTION: Do not use Chemours materials in medical applications involving permanent implantation in the human body or contact with bodily fluids or tissues, unless the material has been provided from Chemours under a written contract that is consistent with Chemours policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your Chemours representative. You may also visit www.teflon.com/industrial to download a copy of the "Chemours POLICY Regarding Medical Applications" and "Chemours CAUTION Regarding Medical Applications." For medical emergencies, spills, or other critical situations, call (866) 595-1473 within the United States. For those outside of the United States, call (302) 773-2000.

The information set forth herein is furnished free of charge and based on technical data that Chemours believes to be reliable. It is intended for use by persons having technical skill, at their own discretion and risk. The handling precaution information contained herein is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Because conditions of product use are outside our control, Chemours makes no warranties, express or implied, and assumes no liability in connection with any use of this information. As with any material, evaluation of any compound under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

NO PART OF THIS MATERIAL MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM OR BY ANY MEANS ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING OR OTHERWISE WITHOUT THE PRIOR WRITTEN PERMISSION OF CHEMOURS.

For more information, visit www.titanium.chemours.com

© 2015 The Chemours Company TT, LLC. Biasill™, Kyasill™, Zircore™, and Starblast™ and any associated logos are trademarks or copyrights of The Chemours Company TT, LLC. Chemours™ and the Chemours Logo are trademarks of The Chemours Company.

Replaces: H-60159-5

C-00000 (9/15)