

Coarse Staurolite Sand

Blasting Abrasive

Product Information

Chemours produces their coarse staurolite sand product from their heavy mineral deposits in Starke, Florida. This naturally occurring rounded mineral sand is washed and graded to give a product free from dust, dirt, and ultrafines. The staurolite sand is then magnetically separated from other heavy minerals to produce a highly uniform grade.

Applications

Coarse staurolite should only be selected when a heavy paint film is to be removed or a deeper profile is needed that cannot be obtained with Starblast™ or Starblast™ Ultra blasting abrasives.

Similar to other Chemours abrasives, coarse staurolite offers 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
- guaranteed to contain <5% free silica, typically <3%
- rounded to subangular grains result in less abrasive embedment
- electrically nonconductive

Table 1. Physical and Mineral Properties of Coarse Staurolite Abrasive

Typical Screen Analysis			
U.S. Sieve No.*	Sieve Opening, μm	Retained on Sieve, %	
		Mean	Std. Dev.
20	840	<1	-
30	590	2	0.7
40	420	46	7.5
50	297	50	7.5
70	210	1	0.6
PAN	<210	<1	0.3
Grit #30/60			

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

Physical Properties	
Range	
Bulk Density (loose)	136 lb/ft ³ (2176 kg/m ³)
Specific Gravity	3.60–3.65
Hardness (Mohs)	7.0–7.5

Mineral Composition	
Typical, %*	
Staurolite Minerals (FeAl ₅ Si ₂ O ₁₂ OH)	85
Titanium Minerals (Fe ₂ Ti ₂ O ₇)	10
Quartz (Free Silica)	3

*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 visit 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

Staurolite sand abrasives are available in semi-bulk (2-ton) bags, bulk hopper rail cars, and trucks. 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.

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