

FEATURES & BENEFITS

WHITE LIGHTNING® Blasting Abrasive is a whole grain sodium potassium aluminosilicate. Automated scanning electron microscopy confirms that WHITE LIGHTNING contains less than one tenth of one percent crystalline silica. No free crystalline silica is detectable in the mineral complex.

WHITE LIGHTNING abrasives are processed with rigid adherence to Covia QIPSM quality assurance programs to insure a consistent particle size distribution and an absence of adhesion impairing contaminants. Performance in maintenance blasting removes paint and rust with minimal alteration to the original surface profile.

Use of WHITE LIGHTNING can help limit hazardous exposure as dust and fine particles originating from the abrasive itself are classified as nuisance dust. Locally applicable respiratory protective measures should be observed, and caution exercised with respect to dust from surface materials being removed.

PARTICAL SIZE ANALYSIS

Typical Mean Values. These Do Not Represent a Specification.

	Mesh Size		WHITE LIGHTNING® Grades		
	ASTM E-11	MICRONS	10-20	20-40	25-50
Typical mean % retained on individual sieves	10	2.00mm	--	--	--
	16	1.18mm	5.5	--	--
	20	850	56.6	2.5	0.4
	25	710	--	23.7	8.9
	30	600	33.7	40.8	35.0
	35	500	3.3	--	--
	<35	<500	0.9	--	--
	40	425	--	30.3	53.4
	<40	<425	--	2.6	2.4

PHYSICAL PROPERTIES

Typical Mean Values. These Do Not Represent a Specification.

WHITE LIGHTNING® Blasting Abrasive		
Melting Point (°F/°C)	3135/1724	ASTM C-24
Specific Gravity (g/cm ³)	2.65	ASTM C-128
Bulk Density, loose (lb/ft ³)	92-95	ASTM C-29
Hardness (Mohs)	6.0	Mohs' scale

CHEMICAL ANALYSIS

Typical Mean Values. These Do Not Represent a Specification.

	Typical Mean Percent by Weight	
	10-20, 20-40	25-50
Silicon Dioxide (SiO ₂)	58.40	60.20
Aluminum Oxide (Al ₂ O ₃)	23.40	23.40
Iron Oxide (Fe ₂ O ₃)	1.70	0.15
Calcium Oxide (CaO)	0.51	0.40
Magnesium Oxide (MgO)	0.02	0.02
Sodium Oxide (Na ₂ O)	10.30	10.40
Potassium Oxide (K ₂ O)	5.10	5.00
Loss on Ignition (LOI)	0.60	0.41

These oxides exist in a complex of Albite, Microline, and Nepheline. There is no free crystalline silica present.

SHIPPING/ORDERING INFORMATION

- Shipping Point: Nephton/Blue Mountain Ontario, Canada
- Originating Carrier: Canadian Pacific (CP Rail)
- Availability: Bulk and 50 lb Paper Bag
Truck and Rail

CUSTOMER SERVICE

US & Canada: 1-800-243-9004

Fax: 1-800-243-9005

Worldwide: 1-203-442-2500

Fax: 1-203-972-1378

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GRADE NUMBERS INDICATE RELATIVE VALUES OR RESULTS. THEY ARE NOT A SPECIFICATION OR WARRANTY OF PERFORMANCE.

HEALTH HAZARD WARNING: Prolonged inhalation of dust associated with the materials described in this data sheet can cause delayed lung injury. Avoid creating dust when handling, using or storing. Follow OSHA Safety and Health Standards for fugitive dust. Current safety data sheet, containing safety information, is available and should be consulted before usage.

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