

Microbeads AG, CH-5201 Brugg AG / Switzerland

OLIVINSAND Technical Data

FEATURES AND BENEFITS

GREEN LIGHTNING® blasting abrasives are produced from olivine, a naturally occurring mineral of forsterite, Mg_2SiO_4 and fayalite, Fe_2SiO_4 . The hardness, angular grain shape and specific gravity of GREEN LIGHTNING makes it a cost effective alternative to other abrasives, such as silica sand and slag. The absence of chloride ions and corrosive salts virtually eliminate conductivity and flashback rusting to produce surfaces in accordance with industry standards. Performance data for GREEN LIGHTNING used on various surface materials, e.g. steel, aluminium, brick, and masonry, at different surface profiles are available upon request. In addition to standard blasting operations GREEN LIGHTNING is also used for high speed water jet cutting. GREEN LIGHTNING does not contain free crystalline quartz. The usage of quartz sand is prohibited in several countries due to the danger of silicosis. The use of GREEN LIGHTNING as blast cleaning medium is in accordance with ruling health and safety regulations. All GREEN LIGHTNING grades are mined, processed, and screened with rigid adherence to ISO 9001:2000 quality assurance programs. Consistently uniform size distributions and chemistries guarantee repeatable surface profiles and cleanliness.

PARTICLE SIZE ANALYSIS AND PROPERTIES

Mean values. These do not represent a specification. Customized products are available upon request.

	Sieve size [mm]	GL 30	GL 40	GL 50	GL 70	GL 100
	2.00	-	-	-	-	0.0
	1.40	-	-	-	0.0	24.1
	1.00	-	-	-	0.1	48.4
	0.710	-	-	0.0	8.7	21.7
	0.500	-	-	0.2	35.9	4.0
% Retained on	0.355	-	-	8.0	41.6	0.9
Individual sieves	0.250	0.0	0.3	53.2	10.9	-
	0.180	0.2	38.3	30.2	1.8	-
	0.125	34.5	47.5	6.7	-	-
	0.090	40.6	10.4	1.2	-	-
	0.063	17.3	3.0	-	-	-
	Pan	7.5	0.5	0.5	1.0	0.9

Colour	Greenish grey	
Grain Shape	Angular	
Specific Gravity	3.3 g/cm ³	Mohs' Scale.
Hardness	6.5 - 7 .0	EN 1097-3
Bulk Density, loose	1.7 g/cm ³	

CHEMICAL ANALYSIS

Mean values. These do not represent a specification.

Percent by Weight			
Magnesium Oxide	MgO	49.0	
Silicon Oxide*	SiO ₂	41.6	* Present as silicate, contains <0.1% free crystalline silica
Iron Oxide	Fe ₂ O ₃	7.2	
Chromium Oxide	Cr ₂ O ₃	0.3	
Nickel Oxide**	NiO	0.3	** The nickel is bonded in the crystal lattice
L.O.I.		1.0	

PRODUCT AVAILABILITY

The products are available in Paper Bags (25 kg), Big Bags (1200 kg), and Bulk. We deliver from warehouses centrally located around the world. Availability might vary depending on the product requested or the point of destination.

Customized products are available upon request.

TECHNICAL SERVICE

Our skilled technical staff will upon request provide you with additional information concerning the usage and performance of our products.

SALES AND ORDERING INFORMATION

Please feel free to contact us for further information.

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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. Current Material Safety Data Sheet containing safety information is available and should be consulted before usage.

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