

PRODUCTINFORMATION

OLIVINE SAND



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The blasting abrasives are produced from olivine sand, a naturally occurring mineral of forsterite, Mg_2SiO_4 and fayalite, Fe_2SiO_4 . The hardness, angular grain shape and specific gravity of olivine sand 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 surface materials, e.g. steel, aluminium, brick and masonry, at different surface profiles are available upon request.

In addition to standard blasting operations olivine sand is also used for high speed water jet cutting. Olivine sand 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 olivine sand as blast cleaning medium is in accordance with ruling health and safety regulations.

Olivine sand grades are mined, processed and screened with rigid adherence to ISO 9001 quality assurance programs. Consistently uniform size distributions and chemistries guarantee repeatable surface profiles and cleanliness.

Chemical composition (Mean value):

Colour:	Greenish grey		
Grain Shape:	Angular		
Specific gravity:	3,3 g/cm ³		
Hardness:	6,5-7,0	Mohs Scale	
Bulk Density, loose:	1,7 g/cm ³	EN 1097-3	

	GL10	GL30	GL40	GL45	GL50	GL55	GL60	GL65	GL70	GL80	GL100
MgO	46,2	48,8	49,3	49,6	49,6	49,6	49,7	49,6	49,7	49,0	48,9
% SiO₂*	41,6	41,8	41,9	41,8	41,7	41,7	41,6	41,7	41,5	41,6	41,7
by Fe₂O₃	6,8	7,6	7,5	7,5	7,4	7,4	7,4	7,4	7,3	7,4	7,4
weight Cr₂O₃	0,43	0,66	0,44	0,41	0,31	0,31	0,30	0,30	0,30	0,33	0,38
NiO	0,31	0,32	0,32	0,32	0,32	0,32	0,32	0,32	0,32	0,32	0,32

*Present as silicate, contains < 0,1 % free crystalline silica.

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Particle size distribution and properties (Mean value):

	Sieve size (mm)	GL10	GL30	GL40	GL45	GL50	GL55	GL60	GL65	GL70	GL80	GL100
% Retained on individual sieves	2,00	-	-	-	-	-	-	-	-	-	0,0	0,0
	1,40	-	-	-	-	-	-	-	0,0	0,0	5,0	24,4
	1,00	-	-	-	-	-	0,0	0,0	0,1	0,1	10,0	47,2
	0,710	-	-	-	-	0,0	2,0	3,5	5,0	10,2	17,0	20,5
	0,500	-	-	-	0,0	0,1	6,8	11,9	17,0	34,3	26,0	4,5
	0,355	-	-	0,0	4,7	6,1	12,9	18,2	23,5	40,7	30,0	1,8
	0,250	0,0	0,0	0,3	39,8	50,2	42,2	36,5	30,9	12,0	8,0	0,8
	0,180	0,3	0,2	32,5	33,4	33,3	27,3	22,6	17,8	1,8	2,0	0,3
	0,125	1,0	31,8	50,7	17,2	8,4	7,1	5,8	4,5	0,5	1,5	0,2
	0,090	3,2	43,7	12,6	3,7	1,4	1,3	1,1	0,9	0,2	0,2	0,1
	0,063	6,2	17,5	3,4	1,0	0,4	0,3	0,3	0,2	0,1	0,2	0,1
	Pan	89,3	6,8	0,5	0,2	0,1	0,1	0,1	0,1	0,1	0,1	0,1

These do not represent a specification !

Product availability:

The products are available in Paper Bags (25 kg), Big Bags (1.200 kg) und Bulk. We deliver from warehouses centrally located around the world. Availability might vary depending on the product or the point of destination.