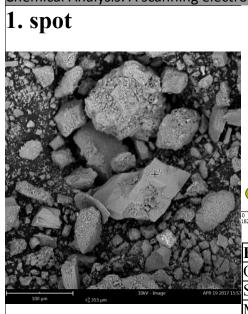
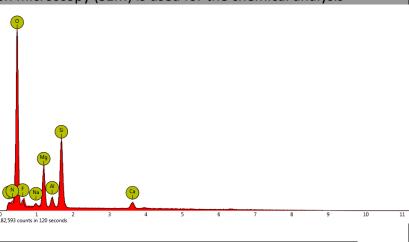


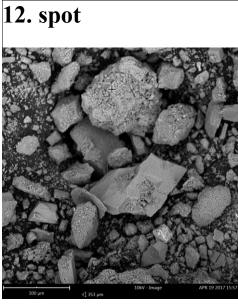
Customer	FAHMY FURNITURE
Sample ID	WASHED SAND COD.003 – comp565
Test	AGGREGATES CHARACTERIZATION
Sample (g)	300
Lab address	PF Lab Services – Simbario (VV) – ITALY

Chemical Analysis: A scanning electron microscopy (SEM) is used for the chemical analysis





Element Symbol	Element Name	Concentration	Error
O	Oxygen	62.1	0.5
Si	Silicon	13.1	0.7
Mg	Magnesium	10.5	1.0
Al	Aluminium	2.2	2.2
Ca	Calcium	3.5	2.4
F	Fluorine	5.5	3.0
N	Nitrogen	1.7	3.4
Na	Sodium	1.4	4.8



(a)	a			
0 1 2 3 70,782 counts in 120 seconds	4 5 6	7 8 9	10	11 12
Element Symbol	Element Name	Concentration	Error	
Al	Aluminium	19.8	0.9	
Si	Silicon	18.9	0.9	
O	Oxygen	47.0	1 1	
	∪11 <i>j</i> 5 €11	17.0	1.1	

1.6

Personal Factory s.p.a. P. IVA 03062550797 viale F. Ceniti 101 – 89822 Simbario tel/fax: +39.0963.74257

Mg

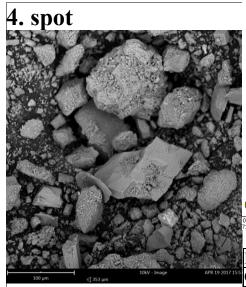
Via dell'Unione, 7 20123 Milano tel/fax: +39.02.8707.83.17

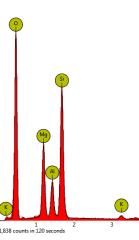
Magnesium

info@personalfactory.eu www.personalfactory.eu

4.9



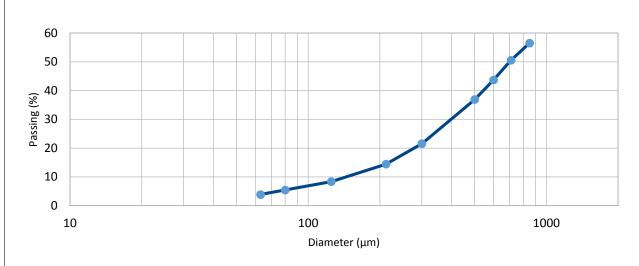




Element Symbol	Element Name	Concentration	Error
O	Oxygen	56.6	0.8
Si	Silicon	21.2	0.8
Mg	Magnesium	14.5	1.2
Al	Aluminium	6.3	1.8
K	Potassium	1.4	5.7

Particles size distribution

Sieves mesh mall S Steel I.S.O. 3310 (UNI EN 933-2) and electric sieve shaker with timer (UNI EN 932-5 ISO 3310-1) were used to lead the analysis.



Particles size analysis

Diameter Sieve	Passing %
[µm]	-
4000	98,00
850	56,51
710	50,52
600	43,70



500	36,91
300	21,53
212	14,42
125	8,34
80	5,43
63	3,88

NOTE

Particles size analysis shows that the sand has a particles distribution between 4000 μ m and 100 μ m. The sample of sand does not have filler (powder with particles size below 80 μ m).

In order to use this sand in the Personal Factory products it has to be sieve with a 800μm sieve. The quantity of sand below 800 μm is about 50%, so it is not advantageous to use this sand.

DATE	PERSONAL FACTORY REFERENT
28/04/2017	Ing. Maria Grazia Spagnolo