



# AGMatrix® Technical data sheet

Officina dell'Ambiente Spa

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Pag. 1 di 1

## **IDENTIFICATION OF THE PRODUCT**

<b>Name</b>	AGMatrix®
<b>Producer</b>	Officina dell'Ambiente Spa –Lomello Plant (PV)
<b>Type of product</b>	AGMatrix® is a secondary raw material used as an aggregate in the production of concrete, concrete products and cement-bound mixtures
<b>Origin</b>	specific treatment of selected waste of inorganic origin, consisting of bottom ash from the incineration of municipal solid waste.
<b>Appearance</b>	a grey granular material.
<b>Grain size</b>	ranging from 2 to 10 mm.

**COMPOSITION:** similar to a natural aggregate, consisting mostly of silica and moderate amounts of lime, with the quality and quantity of macro-components remaining largely stable.

Average chemical composition %		Mineralogical composition and average diffraction (Referred to dry material and expressed as oxides)	
LOI	< 3	Anorhite	Ca(Al <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> )
SiO <sub>2</sub>	45-55	Ghelenite	Ca <sub>2</sub> Al <sub>2</sub> SiO <sub>7</sub>
Al <sub>2</sub> O <sub>3</sub>	5-10	Quartz	SiO <sub>2</sub>
Fe <sub>2</sub> O <sub>3</sub>	5-10	Lime and Calcite	CaO e CaCO <sub>3</sub>
CaO	14-18	Ferrous and ferric oxides	FeO e Fe <sub>2</sub> O <sub>3</sub>
MgO	2-3		
SO <sub>3</sub>	< 0,5		
Cl	0,03-0,04		
Alcali	4-5		

**PRODUCTION PROCESS:** AGMatrix® is obtained through specific treatment of waste of inorganic origin, consisting of bottom ash from the incineration of municipal solid waste. After undergoing various crushing, comminution, screening, iron and metal removal and wet refining processes, the product takes on the appearance of a granular material with a grain size ranging from 2 to 10 mm.

**Environmental advantages:** Sand Matrix® is a secondary raw material that limits the mining works for of natural raw materials and avoids the disposal of special waste in landfills.