PRODUCT DATASHEET: SICILYSTONE 0/45

REFERENCES

SPECIFICATION	DESCRIPTION AND USE
EN12620:2002 + A1:2008	Artificial aggregate of industrial origin 0/31.5 Aggregates for concrete.
EN 13043:2002/AC:2004	Artificial aggregate of industrial origin 0/31.5 Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas.
EN13242:2002 + A1:2007	Artificial aggregate of industrial origin 0/31.5 Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction.

CHEMICAL AND MINERALOGICAL COMPOSITION

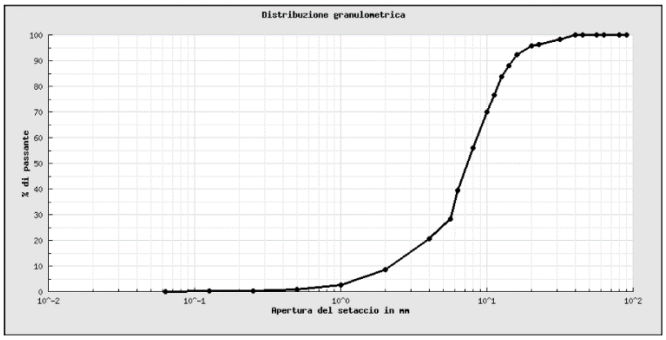
Elements expressed as oxides (% by weight from XRF analysis) and mineralogical phases present (from XRD analysis).

Gehlenite [$Ca_2Al_2SiO_7$]
Wüstite [FeO]
Calcium silicate [Ca_2SiO_4] and calcium magnesium silicate [$Ca_7Mg(SiO_4)_4$]
Spinel (spinel [$MgAl_2O_4$] + magnetite [$FeFe_2O_4$]
Manganese oxide [Mn_3O_4]
Srebrodolskite [Ca_2Fe2O5]
Melilite [$(Ca,Na)_2(Mg, Fe, Al, Si)_3O_7$] and Ilmenite ($FeTiO_3$)
Stellerite [$CaAl_2Si_7O_{18}\,7(H_2O)$]

	$SiO_2 + Al_2O_3$ (w/w%)	CaO + MgO (w/w%)	FeOn + MnO (w/w%)
Min.	10	24	15
Max.	38	55	64

MECHANICAL AND DIMENSIONAL CHARACTERISTICS (annual average values)

Particle size analysis according to UNI EN 933-1:2012 (% cumulative mass passing through)



Sieve opening size (mm)	Fraction of mass retained (%)	Cumulative mass passing through (%)
40	0	100
20	8	92
14	11	81
10	23	58
2	40	8
1	14	4
0.500	2	2
0.063	1.4	0.6

Bulk density of particle grains: 3.54 mg/m^3

STANDARD PACKAGING

Loose material in open-air piles.

PRODUCT REGISTRATION AND DOCUMENTATION

The black slag from which SICILYSTONE is obtained is registered with REACH under no. 01-2119485979-09-0055. SICILYSTONE holds the CE marking certificate and the Declaration of Performance.