

Microsilica

CHEMICAL NAME Amorphous silicon dioxide

CAS NUMBER 69012-64-2

EINECS 273-761-1

FUNCTION Cement additives, Ceramic and refractory products

TECHNICAL REQUIREMENTS	SiO ₂ (diff.).....	95%
	Al ₂ O ₃	0,3%
	C*	1,8%
	CaO	0,7%
	Fe ₂ O ₃	0,1%
	K ₂ O	0,4%
	MgO.....	0,2%
	Na ₂ O	0,1%
	Loss on ignition (1173K) .	1,5%
	Moisture when packed (378K).....	0,2%
	pH.....	7,2
	BET, m ² /g.....	20 – 27
	Bulk density, kg/m ³	550 - 750

*without C in SiC

GENERAL DATA

Color.....	grey, light grey
Odour.....	odourless
Melting Point, °C	1550 - 1570
Solubility (Water).....	Insoluble/slightly soluble
Solubility (Organic solvents).....	Insoluble/slightly soluble
Specific Gravity (water =1)	2.2 - 2.3
Specific Surface, m ² /g.....	15 - 30
Particle size, mean, µm.....	0.15
(less than 0.1 % of primary particles > 45 µm)	

APPLICATION

- production of mortars and castables,
- production of insulating materials,
- production of ceramic and refractory products,
- other industrial applications.