

## Microsilica

<b>CHEMICAL NAME</b>	Silica Fume	
<b>CAS NUMBER</b>	69012-64-2	
<b>EINECS</b>	273-761-1	
<b>FUNCTION</b>	Cement additives, Ceramic and refractory products	
<b>TECHNICAL REQUIREMENTS</b>	SiO <sub>2</sub> (diff.).....	95%
	Al <sub>2</sub> O <sub>3</sub> .....	0,3%
	C* .....	1,8%
	CaO .....	0,7%
	Fe <sub>2</sub> O <sub>3</sub> .....	0,1%
	K <sub>2</sub> O .....	0,4%
	MgO.....	0,2%
	Na <sub>2</sub> O .....	0,1%
	Loss on ignition (1173K) .	1,5%
	Moisture when packed (378K).....	0,2%
	pH.....	7,2
	BET, m <sup>2</sup> /g.....	20 – 27
	Bulk density, kg/m <sup>3</sup> .....	550 - 750

\*without C in SiC

## GENERAL DATA

Color.....	grey, light grey
Odour.....	odourless
Melting Point, °C .....	1550 - 1570
Solubility (Water).....	Insoluble/slightly soluble
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Specific Gravity (water =1) .....	2.2 - 2.3
Specific Surface, m <sup>2</sup> /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.