



INDEPENDENT MINERAL DISTRIBUTORS (Pty) Ltd

SUPPLIERS OF INDUSTRIAL MINERALS & BASE METALS

## Product Data Sheet

**SILICA FUME**  
Grade S

Analysis		Typical %	
SiO <sub>2</sub>		89.84	
Fe <sub>2</sub> O <sub>3</sub>		1.92	
Al <sub>2</sub> O <sub>3</sub>		1.00	
CaO		0.43	
TiO <sub>2</sub>		0.01	
MgO		0.48	
Mn <sub>2</sub> O <sub>3</sub>		0.23	
C		0.54	
S		0.03	
L.O.I.		4.25	
<b>Density</b>	Undensified	160 - 180 kg/m <sup>2</sup>	
	Densified	650 kg/m <sup>2</sup>	
Durability Characteristics in cement			
Water/cement ratio	Oxygen permeability Index	Water Sorptivity (mm/hr <sup>1/2</sup> )	Effective Porosity (%)
0.36	11.07	5.2	7.78
0.40	10.80	4.9	8.41
0.50	10.83	5.6	8.55

### Sizing

Densified	Mean diameter	below 10 micron
	Top size	below 38.5 micron
	Specific Surface Area	1.5 to 1.7 m <sup>2</sup> /g

### Packing

1.2 m<sup>3</sup> Bulk bags (approx. 540 kg per bag undensified; 750 kg per bag densified)

Information above is given in good faith as accurate but not guaranteed to be a specification. No guarantee is given or implied. Users should conduct tests to determine suitability for any specific purpose

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