

SPECIFICATIONS

TYPICAL PHYSICAL PROPERTIES

Colour	: Dark Brown – Reddish
Specific Gravity	: 4.1
Free Moisture	: 0.5 % Maximum
Shape of particle	: Sub-angular
Odour	: Odourless

TYPICAL CHEMICAL ANALYSIS:

Element	% by weight
SiO ₂	40 - 45
Al ₂ O ₃	13 - 18
MgO	3 - 8
K ₂ O	0.10
Fe ₂ O ₃	29 - 34
TiO ₂	1 - 3
CaO	0.01
Na ₂ O	0.5 - 1

Chemical Name	: Iron Aluminum Silicate
Loss on Ignition	: 1 - 2 %
Hardness	: 7.5 Moh's Scale

<i>Name</i>	<i>Size</i>	<i>Application</i>
G-1	1 - 2mm	Filters
G-2	20 - 40 mesh	Sand Blasting
G-3	40 - 60 mesh	Sand Blasting
G-4	60 - 100 mesh	Water jet cutting
G-5	- 100 mesh	Water jet cutting

(Other grades can be produced on request)

Specification	: 90 % within limits
Bulk Density	: G-1 : 1.8 Kg/L
	: G-2 / G-3 : 1.6 Kg/L
	: G-4/G-5 : 1.5 Kg/L
Standard Packing	: 25 Kgs – HDPE bag
	: 1000 Kgs Jumbo bags with top and bottom opening

THE PREMIER MICA COMPANY
(ISO 9001 2000 CERTIFIED)



MATERIAL SAFETY DATA SHEET

1. DISCRIPTION OF MATERIAL

Name : Silicon di Oxide (SiO₂)
Product Name : **PREMICA**
Normal State : Solid
Normal Form : Granular
Chemical Family : Silicate

Chemical Analysis	: Silica	as	SiO ₂	90 %
	Alumina	as	Al ₂ O ₃	3.5 %
	Iron	as	Fe ₂ O ₃	0.30 %
	Calcium	as	CaO	0.25 %
	Magnisium	as	MgO	0.03 %
	Potassium	as	K ₂ O	1.50 %
	Sodium	as	Na ₂ O	2.90 %
	Loss on Ignition			0.6 %
	pH (10% solution)			7.5
	Moisture			0.2 %

CAS Number : 014808 – 60 – 7

2. FIRE EXPLOSION AND REACTIVE DATA

Flammability : Non – Flammable
Explosivity : Non – Explosive
Reactivity : Reacts with Fluorides, Chlorides and Hydrofluoric Acid
Hazardous Decomposition: Silica will dissolve with Hydrofluoric Acid with produce a corrosive gas.
Extinguishing Media : Any suitable material for fire

3. PRODUCT HEALTH HAZARD INFORMATION

Corrosivity : Non – corrosive
Toxicity : Non – Toxic

4. PERSONAL PROTECTION

No special protection is required other than that is normally used during handling of powders and granules. Appropriate dust masks should be worn if dust levels are high.

5. HANDLING AND STORAGE

Avoid using hooks and other sharp instruments to handle the packed material. Care should be taken not to damage the packed bags.

Material should be stored in a dry and covered storage area.

6. DISPOSAL PROCEDURE

Normal factory disposal procedures can be followed, provided care is taken to avoid airborne dust.

7. FIRST AID PROCEDURES

Eyes : Contact with eyes can cause irritation and abrasion.

- *Flush eyes with cool and clean water*

Skin : None

Inhalation : Inhalation of dust may cause difficulty in breathing and choking. Excessive inhalation of fine silica dust over long periods of time may cause Silicosis.

- *Shift to an area of clean dust free air. If not breathing give artificial respiration followed by oxygen. If irritation persists get medical help.*

Ingestion : None

Systemic : None