

# Technical Data Sheet

## GARNET SGA

**Product Name:** SGA                      **Manufacturer:** SEPPE TECHNOLOGIES  
**Date:** 2025/2/22                      **Testing Standard:** JB/T 7997-2012

<b>CHEMICAL COMPOSITION TYPICAL VALUE (%)</b>	
SiO <sub>2</sub>	36.0
Al <sub>2</sub> O <sub>3</sub>	22.0
MgO	5.0
FeO+Fe <sub>2</sub> O <sub>3</sub>	29.0
CaO	2.0
MnO	1.0
TiO <sub>2</sub>	0.5
<b>TYPICAL CHARACTERISTICS</b>	
Particle Shape	Angular, Sharp
Specific Gravity(g/cm <sup>3</sup> )	4.1
Bulk Density(g/cm <sup>3</sup> )	2.3
Hardness(Mohs)	7.5-8.0
Acid Solubility	0.7%
Melting Point	1250°C
<b>Typical Other Characteristics</b>	
Conductivity	10.2 mS/m
Water-Soluble Chloride %	0.0003
Acid Aolubility(HCL)	0.74%
Moisture	0.18%
Copper	<0.005%
Ferrite (free iron)	<0.01%
Free Silica	<0.1%



Lead	<0.002%				
Other Heavy Metals	<0.01%				
Sulphur	<0.01%				
Cadmium	Nil				
Carbonate	Traces				
Loss on Ignition	Nil				
Metal	Traces				
Crystal System	Cubic				
Fracture	Sub-Conchoidal				
Moisture Absorption	Non Hygroscopic				
Magnetism	Slightly				
Radiocativity	Not Detectable above Background				
<b>MINERALS COMPOSITION (%)</b>					
Garnet	99.000				
Quartz	0.010				
Ilmenite	0.100				
Others	0.600				
MM	Mesh	<b>SIEVE ANALYSIS</b>			
		20/40	30/60	80	120
0.850	20	0-5			
0.600	30	40-60	0-5		
0.425	40	10-30	1-10	0-1	
0.300	50	0-10	45-60	1-10	
0.250	60		10-25	20-40	0-1
0.180	80		0-10	25-50	0-10
0.150	100			0-10	10-45
0.125	120				40-60
	140				10-20
	Pan				0-5
***End of Test Data***					
COMMENTS	 				

Inspector: Lei Wang

Auditor: Xiaoheng Geng

QC Manager: Ming Gao