

## GARNET TECHNICAL DATA SHEET

### AVERAGE CHEMICAL COMPOSITION

1. CaO	=	0.60%
2. MgO	=	1.00%
3. Al <sub>2</sub> O <sub>3</sub>	=	22.08%
4. Fe <sub>2</sub> O <sub>3</sub>	=	38.10%
5. SiO <sub>2</sub>	=	36.05%
6. L.O.I.	=	01.09%
7. MnO	=	0.07%
8. TiO <sub>2</sub>	=	0.12%
9. K <sub>2</sub> O	=	0.04%
10. Na <sub>2</sub> O	=	0.02%

### PHYSICAL CHARACTERISTICS

• SP. Gravity	=	4.10
• Hardness (Moh)	=	7.30
• Chloride	=	19.00 ppm
• T.D.S	=	160 ppm
• Bulk Density	=	2.4 ft <sup>3</sup>
• Conductivity	=	15 mS/m
• Moisture Absorption	=	0.10

### MINERALS COMPOSITION

1. GARNET	=	98.00%
2. QUARTZ	=	0.50%
3. ILMENITE	=	1.10%
4. OTHERS	=	0.40%



MM	Mesh	Percentage Retention					
		12/24 Mesh	20/24 Mesh	20/60 Mesh	30/60 Mesh	80 Mesh	120 Mesh
1.400	12	0					
0.850	20	30-40	0-5	0-5			
0.600	30	40-50	50-70	10-25	0		
0.425	40	0-5	10-20	25-50	0-10	0	
0.300	50		0-10	25-45	45-60	0-10	
0.250	60			0-15	10-25	20-40	0
0.180	80			0-5	5-20	20-50	0-10
0.150	100				0-1	0-10	20-40
0.125	120						40-60
	Pan						0-10

Note: Variation in the size of grains occurs from time to time. Although not guaranteed. The grain size distribution can be expected to be within the above value.