



# UDAIPUR MIN-TECH PVT. LTD.

## ANALYTICAL & TESTING DIVISION



### TEST CERTIFICATE

Report No.	UMT-19-20/-12	Date	10/08/2022
Lab No.	UMT060120M01	Page-1/1	
Issued to:	ELITE MINERALS		
Type of Sample:	Mineral- Garnet 20-40 Mesh		
Packing, Markings, Seal:	Plastic Polythene Marked as "Garnet"		
Quantity:	Approx.1.0 kg		
Mode of Receipt of Sample:	Sample Provided By Customer		
Date of Receipt of Sample:	10/08/2022		
Date of Reporting:	10/08/2022		
Remarks & Observation:	Sample In Crystal/Grains form		

#### A. Chemical Analysis

Parameters	Results (%)
SiO <sub>2</sub>	37.18
Al <sub>2</sub> O <sub>3</sub>	29.50
Fe <sub>2</sub> O <sub>3</sub>	29.94
CaO	1.12
MgO	0.80
TiO <sub>2</sub>	0.23
LOI	0.20

#### B. Sieve Analysis Results

M.M	ASTM	Retain Ed %
1.00	18	0.00
0.710	25	1.50
0.600	30	6.50
0.425	40	28.0
0.355	45	52.0
0.300	50	6.00
0.250	60	5.00
0.180	80	1.00
0.150	100	0.00
Remaining		0.00

#### C. Mineral Composition % by Weight

Garnet	98.97
Ilmenite	1.03
Other	0.0

#### D. Physical Characteristics

Test	Results
Specific Gravity	4.10
Conductivity	69 µS/cm
Chloride	14.99 mg/l
Hardness	7.08 mohs
Acid Solubility	<1.0 %
Grain Shape	Non - angular
Moisture	Nil
Bulk Density	2.27 g/cc

Tested By



Authorized Signatory

#### Remarks:

1	The test report shall not be reproduced in full or part nor shall be used for promotional or publicity purpose without the written approval of the Lab
2	The results relate only to the items tested