



# INDIAN RARE EARTHS LIMITED

(A Govt of India Undertaking)

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## SPECIFICATIONS

### GARNET 'OR' ULTRAFINE GRADE

#### CHEMICAL ANALYSIS:

i) **Guaranteed:**

Garnet	93.50 % (Min)
Particle size (d <sub>50</sub> )	+120 mesh (+125 microns)

ii) **Typical:**

Ilmenite	4.39 %
Garnet	93.93 %
Quartz	0.22 %
Others	1.46 %

#### SIEVE ANALYSIS (Typical):

Sieve Opening Microns	Weight %	Cum. Weight % retained
+180	11.5	11.5
+150	29.3	40.8
+125	33.0	73.8
-125	26.2	100.0

<b>SPECIFIC GRAVITY</b>	: 4.11
<b>BULK DENSITY</b>	: 2,320 - 2,400 Kg/M <sup>3</sup>
<b>HARDNESS</b>	: 6.5 – 7.5 (Moh's scale)

- Note:
1. The chemical analysis of this natural product Monazite is expected to vary.
  2. Variations in the size of grains occur from time to time. Although not guaranteed, the grain size distributions can be expected to be within the above ranges.