



# INDIAN RARE EARTHS LIMITED

(A Govt of India Undertaking)

Plot no. 1207, EC TV Building, Veer Savarkar Marg, Prabhadevi, Mumbai - 400028

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## SPECIFICATIONS

### GARNET 'OR' GRADE (MEDIUM)

#### GUARANTEED:

Garnet	94.00 % (Min)
Particle size (d <sub>50</sub> )	+ 80 mesh(+180 micron)

#### TYPICAL MINERALOGICAL ANALYSIS:

Ilmenite	3.6%
Garnet	94.43 %
Quartz	0.40 %
Others	1.57 %

#### SIEVE ANALYSIS:

MESH NO.	SIEVE OPENING MICRONS	CUM. WEIGHT % RETAINED
+40	+425	0.03
-40 +50	-425 +300	0.24
-50 +60	-300 +250	34.84
-60 +70	-250 +212	73.30
-70 +80	-212 +180	74.63
-80 +100	-180 +150	98.51
-100	-150	100.00

**SPECIFIC GRAVITY** : 4.11

**BULK DENSITY** : 2,320 - 2,400 Kg/m<sup>3</sup>

**HARDNESS (Moh's)** : 6.5 to 7.5

**Note:** 1. Garnet being a natural product, its chemical analysis is expected to vary.  
2. Variations in Sieve analysis is furnished for guidance purpose. As it a naturally occurring minerals, its grain size is found to vary from time to time.