



आईआरईएल (इंडिया) लिमिटेड

IREL (India) Limited

(Formerly INDIAN RARE EARTHS LIMITED)

☎ 06811-257890 to 257895
फैक्स/FAX : 06811 - 257988
e-mail: head-ireo@irel.co.in
website: www.irel.co.in

(भारत सरकार का उपक्रम - परमाणु ऊर्जा विभाग)
(A Government of India Undertaking - Dept. of Atomic Energy)
उड़ीसा सैंड्स कॉम्प्लेक्स, माटिखलो (डाक) Orissa Sands Complex, Matikhalo (P.O)
छत्रपुर (गंजाम), ओडिशा- 761045, भारत Chatrapur (Ganjam), Odisha -761 045, INDIA

ISO 9001: 2015, ISO 14001: 2015 & ISO 45001: 2018 Company

“OR” Ilmenite

i) Guaranteed:

TiO ₂	: 50.25% (Min)
Th	: 75 ppm (Max)
U	: 10 ppm (Max)

ii) Typical Chemical analysis:

TiO ₂	: 50.5	%
FeO	: 34.04	%
Fe ₂ O ₃	: 12.43	%
Al ₂ O ₃	: 0.45	%
SiO ₂	: 0.71	%
Cr ₂ O ₃	: 0.048	%
MnO	: 0.51	%
P ₂ O ₅	: 0.022	%
V ₂ O ₅	: 0.23	%
CaO	: 0.04	%
MgO	: 0.64	%
Th	: 43	ppm
U	: <6	ppm

iii) Size analysis(typical):

Sieve openings (in microns)	Weight%
+ 300	1.7
- 300 + 212	19.7
- 212 + 150	34.3
- 150 + 106	34.5
- 106 + 90	5.4
- 90 + 75	3.7
- 75	0.7

Note: 1. Ilmenite being a natural Product, variation in the size of gains, occur from time to time. Although not guaranteed, the grain size distribution can be expected to be within the above ranges.

[Signature]

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कारपोरेट कार्यालय : प्लॉट नं. 1207, सिद्धि विनायक मंदिर के सामने, वीर सावरकर मार्ग, प्रभादेवी, मुंबई- 400 028
Corporate Office: Plot no:1207, Opp. Siddhi Vinayak Temple, Veer Savarkar Marg, Prabhadevi, Mumbai-400 028
☎ +91-22-24211630, 24211851, 24220230, 24382042, Fax: +91-22-24220236, website: www.irel.co.in



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आईआरईएल (इंडिया) लिमिटेड
IREL (India) Limited, OSCOM
(भारत सरकार का उपक्रम)

(A Government of India Undertaking)

गुणवत्ता नियंत्रण प्रयोगशाला, तकनीकी सेवाएं -
उडीसासैंण्ड्सकांप्लेक्स, माटिखालो- 761045, छत्रपुर (गंजाम), ओडिशा
Quality Control Laboratory (QCL), Technical Services
Odisha Sands Complex, Matikhalo-761045, Chatrapur (Ganjam), Odisha

ISO 9001: 2015, ISO 14001: 2015 & ISO 45001: 2018 Company



OSCOM/FP/2026/131

Date: 09.02.2026

Certificate of Analysis

Ref: Mineral and Size Analysis of "OR" Ilmenite (Monthly Composite of January, 2026)

Mineral Analysis		Size Analysis	
Mineral	Assay%	Sieve openings (in Microns)	Wt%
Ilmenite	98.53	+300	1.6
Garnet	0.98	-300+212	22.3
Monazite	0.05	-212+150	32.2
Rutile	0.20	-150+106	33.6
Zircon	0.05	-106+90	5.9
Sillimanite	0.04	-90+75	3.7
Quartz	0.04	-75	0.7
Others	0.11		

I/C, Technical Services.

DM-T (Chem.)

To,

I/C Marketing.