



Texan Minerals and Chemicals LLC



14090 Southwest Freeway, Suite 310, Sugar Land, TX 77478

Phone: 713-294-4180 Email: Mani@TMCgreen.com

TECHNICAL DATA SHEET (SGS Report data, Sep 8, 2022)

Constanza, Romania Port Ilmenite 65 -LOW Al₂O₃

Other names: Ilmenite sand, Ilmenite

CAS number: 1317-80-2

Formula: Fe₂O₃*TiO₂

Technical Condition of Ukraine TU-U 14-10-005-98 Harmonize Commodity Code 2614001000

CHEMICAL ANALYSIS

Chemicals (On dry basic)	Result %	Methods applied
Humidity	0.87	GOST 22939.2-78
TiO ₂	65.7	Based on GOST 25702.14-83, p.3
Al ₂ O ₃	1.21	ICP Method
SiO ₂	0.99	ICP Method
Cr ₂ O ₃	1.12	ICP Method
Fe ₂ O ₃ (on basis of Fe & FeO)	25.7	<i>Calculated by</i> GOST 25702.3-83, ICP Method
FeO	0.35	Based on GOST 25702.3-83
MnO	0.97	ICP Method
MgO	0.97	ICP Method
CaO	0.152	ICP Method
P ₂ O ₅	0.189	ICP Method
V ₂ O ₅	0.18	ICP Method
Nb ₂ O ₅	0.109	ICP Method
ZrO ₂	0.113	ICP Method
S	0.010	IR Method
ZnO	0.029	ICP Method
U+Th	50 ppm Max	Method XRF
Sn	0.00001	Method XRF
Sb	0.00162	Method XRF
As	0.00823	Method XRF
Pb	0.03538	Method XRF

PHYSICAL DESCRIPTION AND PROPERTIES

Minerals	Contents %	Item	Result
Ilmenite	93-95	Melting point	1365°C
Rutile	2.4-2.9	Specific Gravity	4120 - 4170 kg/m ³
Leucoxene	0.5-0.8	Bulk density	2130 - 2240 kg/m ³
Zircon	0.02-0.05	Grain size	88 -230 mesh
Monazite	<0.1	Flammable	Nonflammable
Staurolite	0.3-0.5	Solubility in Water	Insoluble
Kyanite	0.01-0.07	Angle of friction	32
Tourmaline	0.05-0.15	Hardness	5
Chromes pinelite	1.5-2.2		

SIEVE ANALYSIS (Methods applied: GOST 24598-81)

Sieve (microns)	Mesh	retained %	Cum. Retained%
250	60	0.68%	0.68%
212	70	6.90%	7.58%
180	80	29.69%	37.27%
150	100	43.65%	80.92%
125	120	15.71%	96.63%
106	140	2.48%	99.11%
90	170	0.50%	99.61%
75	200	0.10%	99.71%
-75	-200	0.30%	100.00%

End use : High Grade Pigment TiO₂ or High-Grade Titanium Sponge

Shipment : Two Hatches 10,000 Tons each.