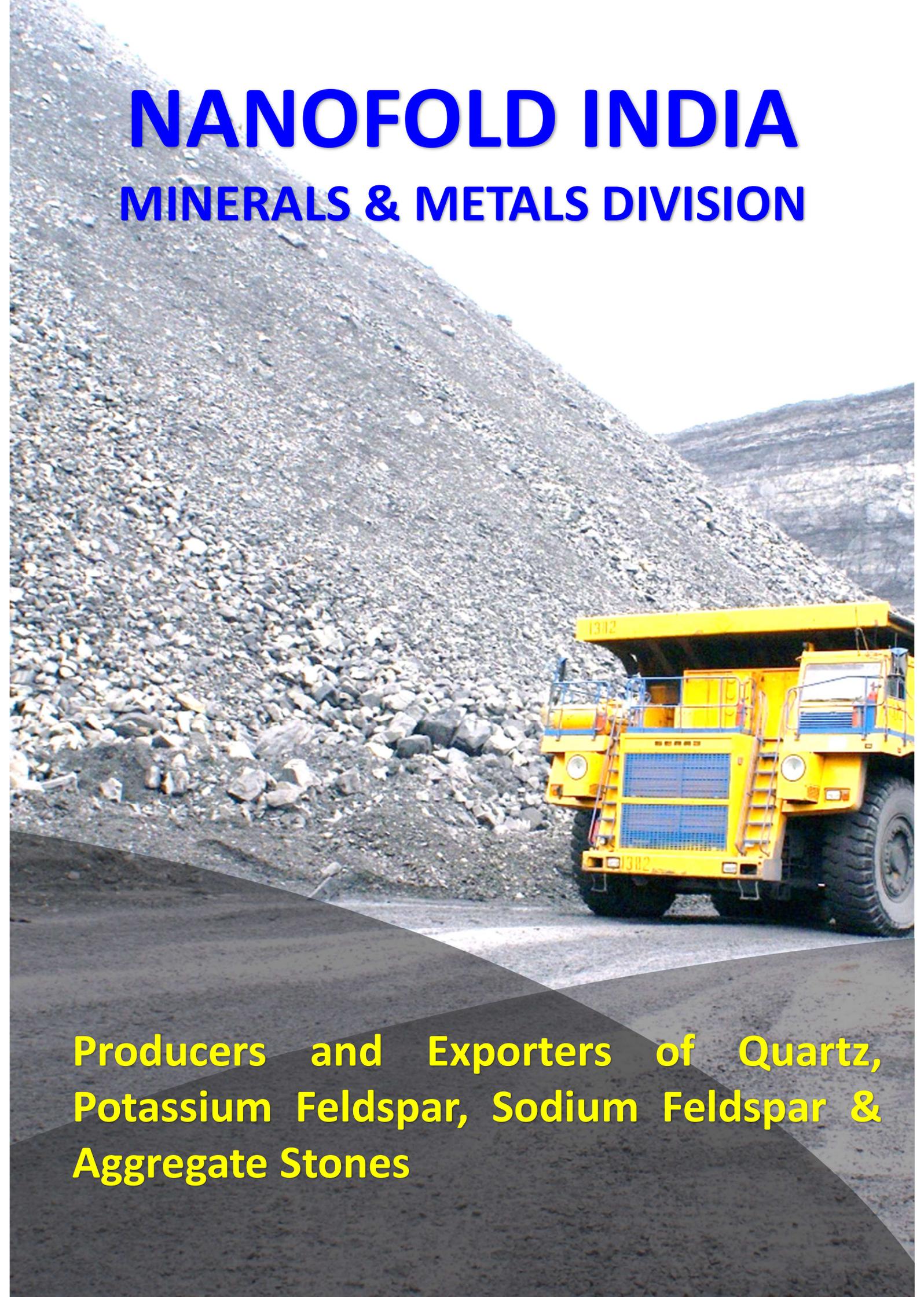


NANOFOLD INDIA

MINERALS & METALS DIVISION



**Producers and Exporters of Quartz,
Potassium Feldspar, Sodium Feldspar &
Aggregate Stones**



NANOFOLD INDIA

**Producers and Exporters of Quartz, Potassium Feldspar, Sodium Feldspar
& Aggregate Stones**

**3, Bellary Road, RMV Extn., Sadashiva Nagar, Bangalore,
Karnataka -560080, India
Email : info@nanofold.net
Office : +91 80236 18955**

Dr. Ilan Kuppusamy : +91 73973 04888

[Founder Nanofold India]

Mr. Hemant Mehta : +91 98450 83885

Chief Executive Officer- Ms. Kokila : +91 90805 96193

Chief Operating Officer- Mr. Sudhakar : +91 8148185187

Export Director- Mr. Harish : +91 99807 12261

RESUME AND NATURE OF THE BUSINESS

Nanofold India is one of the largest producers and exporters of non-metallic products such as quartz, potassium feldspar, sodium feldspar, and aggregates stones. After extensive market study Nanofold India valued this business and as on today we are as one of the leading exporters from India.

Nanofold group having expertise in bulk material handling, exports and its previous experience in iron ore mining and delivery of minerals to international market is an added value to perform nonmetallic exports successfully and currently exporting to Japan, China, South Korea and Bangladesh to meet their QC standards.



SOURCES:

High quality of mineral we produce from Gujarat, Tamil Nadu, Andhra Pradesh, Orissa, Rajasthan and Karnataka, India.

OUR PRODUCTS:

- Quartz



- Potassium Feldspar



- Sodium Feldspar



- Aggregate stones



SPECIFICATION OF QUARTZ



中国检验认证集团印度有限公司
CCIC INDIA PRIVATE LIMITED

Branch Office : First Floor, Old No. 100, New No. 96, East Madha Church Street,
Royapuram, Chennai - 600 013. Phone : 044 - 4269 8250
Email : accounts.in@ccicindia.com Web : www.ccicindia.com CIN : U85110DL2007FTC163542

TEST REPORT

Report No.: CCIC/CHE/LAB/097-2023

Report Date: 21.09.2023.

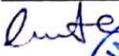
Job No. : IND/CCIC/CHE/097-2023
Customer Name : Mr. Ilan Kuppusamy
Customer Address : M/s. Nanofold India,
3, Bellary Road, Opp. White Petals Palace, RMV Extension
Sadashivanagar, Bangalore – 560080.

Sample Description : Quartz Lumps
Sample Drawn : Submitted by Customer
Number of Sample(s) Received : 1
Condition of Sample : Lumps for Chemical Analysis
Quantity of Sample : Lumps -200 g
Received Date : 19.09.2023

Seal on Sample(s) : -
Lab Code No : 097 - 2023
Analysis Commenced on : 20.09.2023
Analysis Completed on : 21.09.2023

The above sample(s) was/were examined as detailed below and the following results obtained:

S.No.	Test	Unit	Results	Method of Analysis
1.	Silica as SiO ₂	% (m/m)	99.67	IS 1917: Part 3: 1992 – Reaffirmed 2022
2.	Iron Oxide as Fe ₂ O ₃	% (m/m)	0.09	IS 11464 – 2021
3.	Alumina as Al ₂ O ₃	% (m/m)	0.06	IS 11464 – 2021
4.	Titanium as TiO ₂	ppm	<1	IS 11464 – 2021
5.	Calcium Oxide CaO	% (m/m)	0.02	IS 11464 – 2021
6.	Magnesium Oxide MgO	% (m/m)	0.01	CCIC/CHE/SOP-016
7.	Manganese Mn	% (m/m)	0.011	CCIC/CHE/SOP-016
8.	Electrical Conductivity	µs/cm	5.02	CCIC/CHE/SOP-016
9.	Loss On Ignition	% (m/m)	0.08	IS 1917: Part 1: 1991 – Reaffirmed 2022
10.	Sodium Oxide as Na ₂ O	% (m/m)	0.01	IS 1917: Part 2: 1991 – Reaffirmed 2022


C. Gopinath
Quality Manager



Page 1 of 1

- (1) The test results relate only to the items tested.
- (2) Samples not drawn by the Laboratory.
- (3) The test report shall not be reproduced except in full without written approval of the laboratory.

CCIC/CHE/LAB/FLB 10

ISSUE NO: 02 Revision No: 02 ISSUE DATE: 01.08.2019

Registered Office : 1/11554 A, Main Road, Subhash Park Extn., Naveen Shahdara,
Near KD School, Delhi, East Delhi – 110032.
CIN No. : U85110DL2007FTC163542

SPECIFICATION OF FELDSPAR

General Chemical & Physical Properties of Our Refined Feldspar Powder

	Content	Washed Potash Feldspar Powder (Body Grade)	Washed Soda 9+ Feldspar Powder
1	Al ₂ O ₃	14-16%	14-16%
2	SiO ₂	69 – 72%	69 – 72%
3	Fe ₂ O ₃	< 0.1%	< 0.1%
4	Na ₂ O	>2.5%	>9.0%
5	K ₂ O	> 4.5 %	> 0.4 %
6	MgO	< 1.0%	< 1.0%
7	CaO	< 1%	< 1%
8	L Value	> 84	> 83
9	A Value	< 0.25	< 0.25
10	B Value	< 5.0	< 6.0
11	Shrinkage	13% – 14% @1210° C 10min.	13% – 14% @1210° C 10min.
12	Whiteness	> 64	> 64
13	Particle Size	Max Particle Size : +74micron < 7% (+200mesh < 7%)	Max Particle Size : +74micron < 7% (+ 200mesh <7%)

Dry Ground Quartz

Quartz Powder		
Chemical Analysis (%)		
Al₂O₃	Traces	Traces
SiO₂	97.5 ± 1	99.2 ± 0.5
Fe₂O₃	0.03 ± 0.01	0.02 ± 0.01
CaO	Nil	Nil
MgO	Nil	Nil
TiO₂	Nil	Nil
LOI	0.5	0.5
Moisture	< 1	< 1
Particle Size	d ₉₅ – 44 µm	d ₉₅ – 44 µm



Processed Muscovite Mica Flakes

Processed Muscovite Mica Flakes		
Chemical Analysis (%)		
Na ₂ O	0.5 ± 0.05	0.5 ± 0.05
K ₂ O	7.5 ± 0.1	7.5 ± 0.1
Al ₂ O ₃	34.0 ± 1	34.0 ± 1
SiO ₂	48.0 ± 1	48.0 ± 1
Fe ₂ O ₃	3.00 ± 0.5	3.00 ± 0.5
CaO	0.05 ± 0.01	0.05 ± 0.01
MgO	0.6 ± 0.1	0.6 ± 0.1
TiO ₂	< 0.25	< 0.25
LOI	2.0	2.0
Moisture	< 1	< 1
Available Sizes	3 ~ 7mm, 7 ~ 25mm, +25mm	1 ~ 3mm, 1 ~ 7mm
Impurities	< 2% (Stones & Ruby Mica)	< 10 % (Stones & Ruby Mica)





Feldspar Granules

	SODA FELDSPAR		POTASH FELDSPAR	
Chemical Analysis (%)				
Na₂O	7.00 ± 0.5	9.00 ± 0.5	2.90 ± 0.5	2.70 ± 0.5
K₂O	0.40 ± 0.2	0.50 ± 0.2	5.70 ± 0.5	8.80 ± 0.5
Al₂O₃	17.0 ± 1	17.0 ± 1	17.0 ± 1	18.0 ± 1
SiO₂	70.0 ± 1	70.0 ± 1	70.0 ± 1	70.0 ± 1
Fe₂O₃	0.40 ± 0.1	0.40 ± 0.1	0.40 ± 0.1	0.40 ± 0.1
CaO	< 0.9	< 0.9	< 0.9	< 0.9
MgO	< 0.3	< 0.3	< 0.3	< 0.3
TiO₂	Traces	Traces	Traces	Traces
LOI	0.5	0.5	0.5	0.5
Moisture	< 3	< 3	< 3	< 3
Particle Size	d ₈₀ – 5mm			

Wet Ground Purified Feldspar

	SODA FELDSPAR		POTASH FELDSPAR	
Chemical Analysis (%)				
Na₂O	7.00 ± 0.5	8.80 ± 0.5	2.60 ± 0.5	2.70 ± 0.5
K₂O	0.60 ± 0.2	0.50 ± 0.2	5.70 ± 0.5	8.80 ± 0.5
Al₂O₃	17.0 ± 1	18.0 ± 1	17.0 ± 1	17.0 ± 1
SiO₂	71.0 ± 1	69.0 ± 1	71.0 ± 1	68.0 ± 1
Fe₂O₃	0.06 ± 0.01	0.06 ± 0.01	0.06 ± 0.01	0.06 ± 0.01
CaO	< 0.9	< 0.9	< 0.9	< 0.9
MgO	< 0.3	< 0.3	< 0.3	< 0.3
TiO₂	Traces	Traces	Traces	Traces
LOI	0.5	0.5	0.5	0.5
Moisture	< 20	< 20	< 20	< 20
Particle Size	d ₉₀ – 63 µm			



Dry Ground Feldspar

	SODA FELDSPAR		POTASH FELDSPAR	
Chemical Analysis (%)				
Na₂O	8.80 ± 0.5	9.90 ± 0.5	2.40 ± 0.3	2.20 ± 0.3
K₂O	0.30 ± 0.1	0.30 ± 0.1	8.90 ± 0.5	10.50 ± 0.5
Al₂O₃	17.0 ± 1	17.0 ± 1	17.0 ± 1	17.0 ± 1
SiO₂	69.0 ± 1	68.0 ± 1	69.0 ± 1	67.0 ± 1
Fe₂O₃	0.3 ± 0.01	0.3 ± 0.01	0.25 ± 0.01	0.25 ± 0.01
CaO	< 0.9	< 0.9	< 0.9	< 0.9
MgO	< 0.3	< 0.3	< 0.3	< 0.3
TiO₂	Traces	Traces	Traces	Traces
LOI	0.5	0.5	0.5	0.5
Moisture	< 1	< 1	< 1	< 1
Particle Size	d ₉₅ – 63 µm			



Applications:

Cosmetic Products | Mica Sheets for electrical insulations | Welding Electrodes | Paint Industries | Additive for Drilling fluids

SOAPSTONE TALC FOR CERAMIC INDUSTRIES

Nanofold soapstone talc is used in the ceramic industry. It is a soft mineral that can be easily ground into a fine powder, making it ideal for use as a filler or anti-stick agent in ceramic products. Soapstone talc helps improve the workability of ceramic clay and enhances the properties of ceramic materials, including thermal stability, hardness and resistance to water and chemicals. Additionally, it is a cost-effective alternative to other raw materials used in the production of ceramic products.



SPECIFICATION OF AGGREGATE

Type, Size and Quantity

Stone/ Blue Metal/ Black Trap/ Aggregates

Sl.No	Sieve Size mm	% Passing	Requirement As Per IS :383	Flakiness Index, %	Elongation Index %	Method of Test
01	12.5	100	100.00	6.31	18.00	IS: 2386 (Part-1): 1963 Reaffirmed - 2016
02	10	65.32	85-100			
03	20 / 25	82.74	85-100	7.15	11.22	

OTHER TEST REPORTS					
Sl. No	Type of Test		Method of Test	Results	Specification
1	Water Absorption, %		IS: 2386 (Part 3): 1963 RA:2016	0.33	-
2	Specific Gravity			2.962	-
3	Abrasion value, %		IS: 2386 (Part-4): 1963 RA: 2016	13.25	Shall be \leq 30%
4	10% Fine value, KN			178.51	Shall be \geq 150KN
5	Crushing Value %			8.17	Maximum 30%
6	Finer than 75 Micron, %		IS: 2386 (Part-1):1963 RA: 2016	Nil	\leq 1.5%by mass
7	Deleterious Material, %		IS:2386 (Part- 2):1963 RA:2016	2.51	Maximum 5%
8	Clay Lumps, %			Nil	\leq 0.25% by mass
9	Soft Particles, %			Nil	\leq 2.0% by mass
10	Soundness (MgSo ₄), %	Value	IS:2386 (Part5):1963 RA: 2016	5.23	Maximum 18%
11	Soundness (Na ₂ So ₄), %	Value		4.55	Maximum 12%
12	Sulphate Content, SO ₃ , %		IS:2720-1995	0.010	-
13	Chloride Content, mg/lt			19.99	-
14	Alkali Reactivity	Aggregate	IS:2386 (Part-7): 1963	Innocuous Aggregate	-

NANOFOLD INDIA

MINERALS & METALS DIVISION



OUR BRANCHES

KARNATAKA
MAHARASHTRA
ANDHRA PRADESH
TELANGANA
TAMILNADU
RAJASTHAN
GOA

CONTACT US

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