MKRAM
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FELDSPAR PRODUCTS

Technical Data Sheets

Current Production

CERAMICS GLASS CEMENT

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Our Clients

arabian ceramics
RAK CERAMICS
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EL KHAYYAT CERAMICS The Pride of Ceramics
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الياقوت YAQOUT
ZOUJAJ
ALSAFWA cement company
NORTHERN CEMENT CORPORATION

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TECHNICAL DATA SHEET

Product: Feldspar (UFPF-7lm)

CERAMICS

Uses: Ceramics | Sanitary Ware | Porcelain Tiles

Chemical Analysis

Oxide	Percentage (%)	Tolerance (%)
K_2O	5.0	±0.5
Na_2O	4.0	±0.5
Fe_2O_3	0.25	±0.03
TiO_2	<0.07	
Al_2O_3	15.8	±0.5
SiO_2	73.5	±1.0
CaO	0.6	±0.2
MgO	<0.06	
P_2O_5	0.01	
MnO	0.02	
L.O.I	0.6	±0.1

Physical Test Report

Sl.NO.	Parameters		Specification
1	Particle Size		0.0 - 850 Micron
2	Moisture		<0.5%
3	Acid Test in 20% HCL		No Effervescence
4	Sample Firing Temperature Cycle Time		1220°C, 8 hours cycle in lab Muffle Furnace
5	Firing Results	L Value	>65
		A Value	<5.0
		B Value	<6.0

Particle Size Distribution

Size (micron)	0.0-75	75-150	150-500	500-850	+850
Percentage (%)	10	13	63	12	2



Relative distribution across size fractions (as reported).

Indicative fired colour (CIELAB, typical: L 67)

Values shown are typical. A certificate of analysis accompanies each shipment.

TECHNICAL DATA SHEET

Product: Feldspar (UFPF-7-2)

GLASS

Uses: Glass Containers | Bottles

Chemical Analysis

Oxide	Percentage (%)	Tolerance (%)
K_2O	4.2	±0.5
Na_2O	4.0	±0.5
Fe_2O_3	0.2	±0.03
TiO_2	<0.08	
Al_2O_3	15.3	±0.5
SiO_2	74.3	±1.0
CaO	0.5	±0.2
MgO	<0.06	
P_2O_5	0.01	
MnO	0.02	
L.O.I	0.8	±0.1

Physical Test Report

Sl.NO.	Parameters		Specification
1	Particle Size		150 - 850 Micron
2	Moisture		<0.5%
3	Acid Test in 20% HCL		No Effervescence
4	Sample Firing Temperature Cycle Time		1220°C, 8 hours cycle in lab Muffle Furnace
5	Firing Results	L Value	>65
		A Value	<5.0
		B Value	<6.0

Particle Size Distribution

Size (micron)	0.0-75	75-150	150-500	500-850	+850
Percentage (%)	5.6	9.65	62	22.65	0.1



Relative distribution across size fractions (as reported).

Indicative fired colour (CIELAB, typical: L 67)

Values shown are typical. A certificate of analysis accompanies each shipment.

TECHNICAL DATA SHEET

Product: Feldspar (UFPF-7ia)

CERAMICS

Uses: Porcelain Tiles | Sanitary Ware

Chemical Analysis

Oxide	Percentage (%)	Tolerance (%)
K_2O	6.3	±0.5
Na_2O	4.1	±0.5
Fe_2O_3	<0.25	±0.03
TiO_2	<0.08	
Al_2O_3	14.9	±0.5
SiO_2	72.9	±1.0
CaO	0.5	±0.2
MgO	<0.09	
P_2O_5	0.01	
MnO	0.02	
L.O.I	0.4	±0.1
		Total Alkali (K_2O + Na_2O) > 10%

Physical Test Report

Sl.NO.	Parameters		Specification
1	Particle Size		0.0 - 5.0 mm
2	Moisture		<1.0%
3	Acid Test in 20% HCL		No Effervescence
4	Sample Firing Temperature Cycle Time		1220°C, 8 hours cycle in lab Muffle Furnace
5	Firing Results	L Value	70 (±1)
		A Value	<5.0
		B Value	<5.0

Indicative fired colour (CIELAB, typical: L 70)

Values shown are typical. A certificate of analysis accompanies each shipment.

TECHNICAL DATA SHEET

Product: Feldspar (UFPF-5)

CEMENT

Uses: White Cement

Chemical Analysis

Oxide	Percentage (%)	Tolerance (%)
K_2O	5.2	±0.5
Na_2O	3.5	±0.5
Fe_2O_3	0.4	±0.05
TiO_2	<0.08	
Al_2O_3	15.7	±1.5
SiO_2	73.8	±1.5
CaO	0.6	±0.2
MgO	<0.09	
P_2O_5	0.01	
MnO	0.02	
L.O.I	0.2	±0.1

Physical Test Report

Sl.NO.	Parameters		Specification
1	Particle Size		0.0 - 5.0 mm
2	Moisture		<1.0%
3	Acid Test in 20% HCL		No Effervescence
4	Sample Firing Temperature Cycle Time		1220°C, 8 hours cycle in lab Muffle Furnace
5	Firing Results	L Value	60.0 - 65.0
		A Value	<5.0
		B Value	<6.0

Indicative fired colour (CIELAB, typical: L 62.5)

Values shown are typical. A certificate of analysis accompanies each shipment.

TECHNICAL DATA SHEET

Product: Feldspar (UFPF-6)

CERAMICS

Uses: Ceramics

Chemical Analysis

Oxide	Percentage (%)	Tolerance (%)
K_2O	5.2	±0.5
Na_2O	3.2	±0.5
Fe_2O_3	0.3	±0.05
TiO_2	<0.08	
Al_2O_3	15.8	±1.5
SiO_2	73.5	±1.5
CaO	0.8	±0.2
MgO	<0.09	
P_2O_5	0.01	
MnO	0.02	
L.O.I	0.4	±0.1

Physical Test Report

Sl.NO.	Parameters		Specification
1	Particle Size		0.0 - 5.0 mm
2	Moisture		<0.5%
3	Acid Test in 20% HCL		No Effervescence
4	Sample Firing Temperature Cycle Time		1220°C, 8 hours cycle in lab Muffle Furnace
5	Firing Results	L Value	60.0 - 65.0
		A Value	<5.0
		B Value	<6.0

Indicative fired colour (CIELAB, typical: L 62.5)

Values shown are typical. A certificate of analysis accompanies each shipment.

TECHNICAL DATA SHEET

Product: Feldspar (UFSF-3)

CERAMICS

Uses: Ceramics

Chemical Analysis

Oxide	Percentage (%)	Tolerance (%)
K_2O	>3.0	±0.5
Na_2O	>3.5	±0.5
Fe_2O_3	0.45	±0.05
TiO_2	<0.08	
Al_2O_3	15.3	±1.5
SiO_2	76.1	±1.5
CaO	0.7	±0.2
MgO	<0.09	
P_2O_5	0.01	
MnO	0.02	
L.O.I	0.4	±0.1

Physical Test Report

Sl.NO.	Parameters		Specification
1	Particle Size		0.0 - 5.0 mm
2	Moisture		<0.5%
3	Acid Test in 20% HCL		No Effervescence
4	Sample Firing Temperature Cycle Time		1220°C, 8 hours cycle in lab Muffle Furnace
5	Firing Results	L Value	>50
		A Value	<5.0
		B Value	<6.0

Particle Size Distribution

Size (mm)	0.0-0.5	0.5-1.0	1.0-2.0	2.0-4.0	4.0-5.0
Percentage (%)	34	20	24	19	3



Relative distribution across size fractions (as reported).

Indicative fired colour (CIELAB, typical: L 55)

Values shown are typical. A certificate of analysis accompanies each shipment.