DATA SHEET

50107100 NEPHELINE SYENITE 07/08/2025 v1.3

1. PRODUCT IDENTIFICATION

Description NEPHELINE SYENITE. K2O.3Na2O.4Al2O3.8SiO2.

Application It is a natural feldspar contains abnormally high amounts of alkali, sodium-potassium, in relation to their content of silica and alumina, and consequently, its melting point is lower and this feature makes it a desirable substitute of feldespar when it is required lower maturity range for both compounds so frits as glazes.

2. CHEMICAL COMPOSITION Metal oxides with concentrations less than 0.05% have not been determined.

Li_2O		ZnO		Cr_2O_3		CaF_2			
Na_2O	8,2	MnO		B_2O_3		Bi_2O_3		LOI	0,07
K_2O	8,2	CdO		V_2O_5		P_2O_5			
MgO		CoO		MnO_2		BeO			
CaO		NiO		SiO_2	58,5	CeO_2			
SrO		Al_2O_3	24,7	TiO_2	0,06	CuO			
BaO		Fe_2O_3	0,3	ZrO_2		Pr_2O_3			
PbO		Sb_2O_3		SnO_2					

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect White powder

Color(fired)

4. COLORIMETRY * By Minolta ChromaControl (S)

L: n.a. a: n.a. b: n.a.

5. DILATOMETRY * Data obtained with dilatometer BÄHR mod. DIL 801 L 10^{-7} C^{-1}

(25-300)C°	(50-300)C°	(300-500)C°	(500-600)C°	Tª Transformation	Tª Softening	Melting point
				C°	C°	>1250 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY) * Data obtained by Malvern Instruments (Master Sizer 2000)

>10µ	>25µ	>40µ	>70µ	>120µ	D50µ
69	30.1	5.1	0.1	0	16.9

7. RECOMMENDATIONS ON GLAZED OBJECTS INTENDED FOR CULINARY USE

Raw material .

Notes: n.a (not applicable), n.d (no information available), p.n (negative tests)

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Made by dwit

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