

# DATA SHEET

50105600 ULEXITA U-38

20/05/2025 v1.3

## 1. PRODUCT IDENTIFICATION

Description Sodium-Calcium Pentaborate Octahydrate  $\text{NaCaB}_5\text{O}_9 \cdot 8\text{H}_2\text{O}$

Application Raw material for the ceramics industry.

## 2. CHEMICAL COMPOSITION

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

$\text{Li}_2\text{O}$		$\text{ZnO}$		$\text{Cr}_2\text{O}_3$		$\text{CaF}_2$
$\text{Na}_2\text{O}$	8,58	$\text{MnO}$		$\text{B}_2\text{O}_3$	58,91	$\text{Bi}_2\text{O}_3$
$\text{K}_2\text{O}$		$\text{CdO}$		$\text{V}_2\text{O}_5$		$\text{P}_2\text{O}_5$
$\text{MgO}$	1,84	$\text{CoO}$		$\text{MnO}_2$		$\text{BeO}$
$\text{CaO}$	26,49	$\text{NiO}$		$\text{SiO}_2$	2,91	$\text{CeO}_2$
$\text{SrO}$	1,15	$\text{Al}_2\text{O}_3$	0,08	$\text{TiO}_2$		$\text{CuO}$
$\text{BaO}$		$\text{Fe}_2\text{O}_3$		$\text{ZrO}_2$		$\text{Pr}_2\text{O}_3$
$\text{PbO}$		$\text{Sb}_2\text{O}_3$		$\text{SnO}_2$		

## 3 PHYSICAL-CHEMICAL PROPERTIES

Aspect Grey 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  $10^{-7} \text{ C}^{-1}$

(25-300)C°	(50-300)C°	(300-500)C°	(500-600)C°	T <sup>a</sup> Transformation C°	T <sup>a</sup> Softening C°	Melting point C°
						>870 C°

## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

\* Data obtained by Malvern Instruments (Master Sizer 2000)

>10 $\mu$  >25 $\mu$  >40 $\mu$  >70 $\mu$  >120 $\mu$  D50 $\mu$

## 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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