

# DATA SHEET

10101807 'ESMALTE CQ-001 TRANSP. CRAQ. ATOMI

05/02/2025 v1.4

## 1. PRODUCT IDENTIFICATION

Description	Transparent crackled lead glaze recommended for use on white bodies on decoration. Not recommended for ceramicware because its crackled effect. It can be used as corrector of TEC in case of shivering of glazes. Compound of frit: CAS N°. 65997-18-4.
Application	It can be applied: immersion, spraying, any mechanical application method. It can be colored with our "P" Series pigments or Natural pigments by previously testing different %. For decoration, the "CD Series" or "Decor Series" of underglaze colors can be used. Once the piece is fired it is necessary to apply Judean bitumen to highlight the crackled effect. The recommended temperature varies from 940°-980°C.

## 2. CHEMICAL COMPOSITION

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

Li <sub>2</sub> O	5-10	ZnO	0-0.5	Cr <sub>2</sub> O <sub>3</sub>		CaF <sub>2</sub>	
Na <sub>2</sub> O		MnO		B <sub>2</sub> O <sub>3</sub>	5-10	Bi <sub>2</sub> O <sub>3</sub>	CaCl <sub>2</sub> 0-0.5
K <sub>2</sub> O	1-5	CdO		V <sub>2</sub> O <sub>5</sub>		P <sub>2</sub> O <sub>5</sub>	LOI 0.5-1
MgO	0-0.5	CoO		MnO <sub>2</sub>		BeO	
CaO	1-5	NiO		SiO <sub>2</sub>	40-80	CeO <sub>2</sub>	
SrO		Al <sub>2</sub> O <sub>3</sub>	5-10	TiO <sub>2</sub>	0-0.5	CuO	
BaO	1-5	Fe <sub>2</sub> O <sub>3</sub>	0-0.5	ZrO <sub>2</sub>		Pr <sub>2</sub> O <sub>3</sub>	
PbO	20-40	Sb <sub>2</sub> O <sub>3</sub>		SnO <sub>2</sub>			

## 3 PHYSICAL-CHEMICAL PROPERTIES

Aspect	White powder
Color(fired)	Crackled White

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

L: n.a	a: n.a	b: n.a
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## 5. DILATOMETRY

\* Data obtained with dilatometer BÄHR mod. DIL 801 L

10<sup>-7</sup> C<sup>-1</sup>

(25-300)C°	(50-300)C°	(300-500)C°	(500-600)C°	T <sup>a</sup> Transformation	T <sup>a</sup> Softening	Melting point
93.9	92.2	119.4		497 C°	578 C°	>750 C°

## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

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

>10μ	>25μ	>40μ	>70μ	>120μ	D50μ
61.7	26.6	11.0	1.8	0.0	14.0

## 7. RECOMMENDATIONS ON GLAZED OBJECTS INTENDED FOR CULINARY USE

Compound of lead frit. To certify their food use, the final pieces must be submitted to lead migration test by an accredited laboratory.

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



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