

# DATA SHEET

22251804 ESMALTE XP-3050 VIVO S/Pb YEMA POLV

19/09/2025 v1.4

## 1. PRODUCT IDENTIFICATION

**Description** GLOSSY OPAQUE YOLK GLAZE .It belongs to the "LIVE GLAZE" series. They have a colourful shiny finish and leave a high-quality surface finish. Compound of Frit CAS: 65997-18-4.

**Application** Their Thermal Expansion Coefficient  $\alpha=55-60$  (300-500 °C) avoid cracking in commonly ceramic body. The opaque glazes in this series, they are suitable for use on red and white clay bodies. On red clay bodies, they can be single fired, and the addition of Monocol V (5%-10%) is recommended for better adhesion of the glaze to the piece. They can be fired in traditional or fast firing cycles. The firing temperature varies from 960-1020°C

## 2. CHEMICAL COMPOSITION

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

Li <sub>2</sub> O	1-5	ZnO	1-5	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>	10-20	Bi <sub>2</sub> O <sub>3</sub>	Cd(S,Se) en ZrSiO <sub>4</sub> 5-10
K <sub>2</sub> O	0-0.5	CdO		V <sub>2</sub> O <sub>5</sub>		P <sub>2</sub> O <sub>5</sub>	LOI 0-0.5
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	0-0.5	Al <sub>2</sub> O <sub>3</sub>	5-10	TiO <sub>2</sub>		CuO	
BaO	1-5	Fe <sub>2</sub> O <sub>3</sub>	0-0.5	ZrO <sub>2</sub>	1-5	Pr <sub>2</sub> O <sub>3</sub>	
PbO		Sb <sub>2</sub> O <sub>3</sub>		SnO <sub>2</sub>			

## 3 PHYSICAL-CHEMICAL PROPERTIES

**Aspect** Yellow powder  
**Color(fired)** Yolk

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

L: 70.64 a: 33.75 b: 59.08

## 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	T <sup>a</sup> Softening	Melting point
52.5	51.3	55.1	169.7	559 C°	641 C°	>600 C°

## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

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

>10μ	>25μ	>40μ	>70μ	>120μ	D50μ
61.4	29.2	12.7	2.2	0	14.3

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

Contains inclusion cadmium pigment. 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)