

DATA SHEET

22266804 ESMALTE XP-3059/T VIVO AZUL S/Pb. P

19/09/2025 v1.4

1. PRODUCT IDENTIFICATION

Description	GLOSSY TRANSPARENT BLUE 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 transparent glazes in this series are designed for white clay bodies, but due to the density of some of the colours, these may be suitable for use on red 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 ₂ O	1-5	ZnO	1-5	Cr ₂ O ₃		CaF ₂			
Na ₂ O		MnO		B ₂ O ₃	20-40	Bi ₂ O ₃		Co-Cr-Al	1-5
K ₂ O	0-0.5	CdO		V ₂ O ₅		P ₂ O ₅		LOI	0.5-1
MgO	0-0.5	CoO		MnO ₂		BeO		Zr-V-Si	1-5
CaO	1-5	NiO		SiO ₂	40-80	CeO ₂			
SrO	0-0.5	Al ₂ O ₃	10-20	TiO ₂	0-0.5	CuO			
BaO	1-5	Fe ₂ O ₃	0-0.5	ZrO ₂		Pr ₂ O ₃			
PbO		Sb ₂ O ₃		SnO ₂					

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect	Blue powder
Color(fired)	Blue

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 37.43	a: -15.57	b: -16.97
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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°	T ^a Transformation	T ^a 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

Formulated without lead and cadmium.

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