

# DATA SHEET

42103504 VITRIF. VA-111 V.HIERBA S/Pb POLVO

02/06/2025 v1.1

## 1. PRODUCT IDENTIFICATION

Description ONGLAZE COLOR GRASS GREEN. It is part of the onglaze colors for decorating on porcelain or glazed earthenware (Third fire). Compound of frit: CAS N°. 65997-18-4.

Application They admit the application systems: paintbrush, spraying and serigraphy. The following mediums are adapted for the preparation of the colors : Balsam of Copaiba, Essence of Turpentine, SEROGRAF, SEROIL. The appropriate firing condition is between 750°C-850°C, recommended 820°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	1-5	MnO		B <sub>2</sub> O <sub>3</sub>	10-20	Bi <sub>2</sub> O <sub>3</sub>		Co-Ti	20-40
K <sub>2</sub> O	1-5	CdO		V <sub>2</sub> O <sub>5</sub>		P <sub>2</sub> O <sub>5</sub>	0-0.5	HfO <sub>2</sub>	0-0.5
MgO	1-5	CoO		MnO <sub>2</sub>		BeO			
CaO	1-5	NiO		SiO <sub>2</sub>	20-40	CeO <sub>2</sub>			
SrO	0-0.5	Al <sub>2</sub> O <sub>3</sub>	1-5	TiO <sub>2</sub>		CuO			
BaO	1-5	Fe <sub>2</sub> O <sub>3</sub>		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 **Green powder**  
Color(fired) **Grass green**

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

L: 42.96 a: -25.3 b: 15.84

## 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 >600 C°
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## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

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

>10μ	>25μ	>40μ	>70μ	>120μ	D50μ
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## 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)

 PRODESCO S.L.

C/ Aviación 44, 46940 Manises, Valencia - España  
+34961545588  
admon@prodesco.es  
www.prodesco.es

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