

# DATA SHEET

42102104 VITRIF. VA-116 GRIS S/Pb POLVO

02/06/2025 v1.1

## 1. PRODUCT IDENTIFICATION

Description ONGLAZE COLOR GREY. 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>	HfO <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>	Sn-Sb 20-40
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>	1-5	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 Grey powder  
Color(fired) Grey

## 4. COLORIMETRY

\* By Minolta ChromaControl (S)

L: 58.55 a: -2.16 b: -9.97

## 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°
------------	------------	-------------	-------------	----------------------------------	-----------------------------	-----------------------

## 6. GRANULOMETRIC DISTRIBUTION (WET WAY)

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

>10μ	>25μ	>40μ	>70μ	>120μ	D50μ
------	------	------	------	-------	------

## 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

The provide data have been obtained under the specific conditions of the quality control process of PRODESCO S.L. being for informational purposes, not assuming any contractual relationship.