

DATA SHEET

20777804 'ESMALTE GRES O-10581 NARANJA POLVO

21/11/2025 v1.3

1. PRODUCT IDENTIFICATION

Description ORANGE GLAZE. It belongs to high temperature glazes, with high zinc and rutile content. The final effect can be different depending on firing temperature, coat of glaze and kind of biscuit. The result will vary depending on the used body, temperature, cycle and atmosphere. Compound of frit: CAS N°. 65997-18-4.

Application It can be colored with natural metal oxides and some calcined colorants from the "P" Series compatible with zinc oxide. They can be applied by brush, spraying or dipping in single- and double-fired. For one firing it's advisable the addition of Monocol V. Temperature range 1220°C - 1340°C, recommended temperature 1260°C. It is advisable to test at extreme temperatures.

2. CHEMICAL COMPOSITION

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

Li ₂ O		ZnO	10-20	Cr ₂ O ₃		CaF ₂		
Na ₂ O	1-5	MnO		B ₂ O ₃		Bi ₂ O ₃		Cd(S,Se) en ZrSiO ₄ 10-20
K ₂ O	1-5	CdO		V ₂ O ₅		P ₂ O ₅	MEDIUM	0-0.5
MgO	0-0.5	CoO		MnO ₂		BeO		
CaO	1-5	NiO		SiO ₂	20-40	CeO ₂	PPC	1-5
SrO		Al ₂ O ₃	5-10	TiO ₂	1-5	CuO		
BaO		Fe ₂ O ₃	0-0.5	ZrO ₂	0-0.5	Pr ₂ O ₃		
PbO		Sb ₂ O ₃		SnO ₂				

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect Orange powder
Color(fired) Orange

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: 61.41 a: 20.98 b: 31.65

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
58.4	58.3	64.5	75.3	659 C°	840 C°	>1150 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10μ	>25μ	>40μ	>70μ	>120μ	D50μ
43.9	18.3	8	1.7	0	7.9

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)



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

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