

# TECHNICAL DATA *ESM. ETSP-27 TR. VERDE H. SUSPENSIO*

Printed: 26/02/2020

## 1. IDENTIFICATION OF THE SUBSTANCE

<b>Code</b>	41142505
<b>Product name</b>	<i>ESM. ETSP-27 TR. VERDE H. SUSPENSIO</i>
<b>Description</b>	LEADLESS GRASS GREEN GLAZE IN SUSPENSION FORM, READY TO USE. This is a very bright unleaded glaze and therefore recommended for ceramicware. Compound of frit: CAS Nº. 65997-18-4.
<b>Application</b>	It belongs to the "ETSP" series. Totally free of lead. COLOURED GLAZE for application over white or red bodies. The temperature range is from 980 to 1080 ° C. They can be used at higher temperatures obtaining other finishes For additional information you can visit our page <a href="https://prodesco.es/ing/tienda.asp?n1=7&amp;n2=350">https://prodesco.es/ing/tienda.asp?n1=7&amp;n2=350</a>

### Company

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## 2. INFORMATION AND COMPOSITION ON SUBSTANCES

### Chemical analyses

<b>Li<sub>2</sub>O</b>		<b>ZnO</b>		<b>Cr<sub>2</sub>O<sub>3</sub></b>	[5-10]	<b>CaF<sub>2</sub></b>		<b>...</b>	[40-80]
<b>Na<sub>2</sub>O</b>	[1-5]	<b>MnO</b>		<b>B<sub>2</sub>O<sub>3</sub></b>	[5-10]	<b>Bi<sub>2</sub>O<sub>3</sub></b>		<b>Pig. Ing:</b>	[0,5-1]
<b>K<sub>2</sub>O</b>	[1-5]	<b>CdO</b>		<b>V<sub>2</sub>O<sub>5</sub></b>		<b>P<sub>2</sub>O<sub>5</sub></b>			
<b>MgO</b>	[0,5-1]	<b>CoO</b>		<b>MnO<sub>2</sub></b>		<b>BeO</b>			
<b>CaO</b>	[1-5]	<b>NiO</b>		<b>SiO<sub>2</sub></b>	[20-40]	<b>CeO<sub>2</sub></b>			
<b>SrO</b>		<b>Al<sub>2</sub>O<sub>3</sub></b>	[5-10]	<b>TiO<sub>2</sub></b>		<b>CuO</b>			
<b>BaO</b>	[0-0,5]	<b>Fe<sub>2</sub>O<sub>3</sub></b>		<b>ZrO<sub>2</sub></b>		<b>Pr<sub>2</sub>O<sub>3</sub></b>			
<b>PbO</b>		<b>Sb<sub>2</sub>O<sub>3</sub></b>		<b>SnO<sub>2</sub></b>					

## 3 PHYSICAL AND CHEMICAL PROPERTIES

<b>Aspect</b>	Green liquid suspension	<b>Acid index</b>	2,4
<b>State</b>	Liquid	<b>Superficial tension</b>	161,13din/cm
<b>Colour(fired)</b>	Grass green		
<b>Odour</b>			

## 4. COLOUR PARAMETERS

*L=	n.d	*A=	n.d	*B=	n.d	* From Minolta ChromaControl (S)
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## 5. COEFFICIENT OF THERMAL EXPANSION

(25-300)	$70,51 \cdot 10^{-7} \text{ C}^{-1}$	<b>Transformation temperature</b>	581,90°C
(50-300)	$70,26 \cdot 10^{-7} \text{ C}^{-1}$	<b>Softening temperature</b>	682°C
(300-500)	$74,61 \cdot 10^{-7} \text{ C}^{-1}$	<b>Fusion point</b>	> 800°C
(500-600)	$110,026 \cdot 10^{-7} \text{ C}^{-1}$		

\* Dates Obtained from dilatometer BÄHR mod. DIL 801 L.

## 6. PARTICLE SIZE DISTRIBUTION

<b>Size:</b>	>10μ	58,17%	<b>Refraction:</b>	1,68
	>25μ	24,40%	<b>Absorbing:</b>	
	>50μ	9,80%		
	>70μ	1,17%		
	>100μ	%		
	d(0,5)	12,70μ		

\* Dates Obtained from Malvern Instruments (Master Sizer 2000)

## 7. RECOMMENDATIONS ON GLAZED OBJECTS DESTINED TO CULINARY USE

*This material is lead and cadmium free.*

