

# TECHNICAL DATA *ESM. ETSP-26 TR. VERDE COBRE SUSPEN*

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## 1. IDENTIFICATION OF THE SUBSTANCE

<b>Code</b>	41142405
<b>Product name</b>	<i>ESM. ETSP-26 TR. VERDE COBRE SUSPEN</i>
<b>Description</b>	LEADLESS COOPER 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> [0-0,5]	<b>ZnO</b>	<b>Cr<sub>2</sub>O<sub>3</sub></b>	<b>CaF<sub>2</sub></b>	<b>...</b>	<b>[40-80]</b>
<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>Fig. Ing:</b>	
<b>K<sub>2</sub>O</b> [0,5-1]	<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> [0-0,5]	<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> [1-5]		
<b>BaO</b> [1-5]	<b>Fe<sub>2</sub>O<sub>3</sub></b> [0,5-1]	<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>	1,82
<b>State</b>	Liquid	<b>Superficial tension</b>	172,77din/cm
<b>Colour(fired)</b>	Cooper 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

<b>(25-300)</b>	60,33 $10^{-7} C^{-1}$	<b>Transformation temperature</b>	549,0°C
<b>(50-300)</b>	59,36 $10^{-7} C^{-1}$	<b>Softening temperature</b>	603°C
<b>(300-500)</b>	72,49 $10^{-7} C^{-1}$	<b>Fusion point</b>	> 800°C
<b>(500-600)</b>	283,19 $10^{-7} C^{-1}$		

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

## 6. PARTICLE SIZE DISTRIBUTION

<b>Size:</b>	<b>&gt;10μ</b> 59,90%	<b>Refraction:</b>	1,8
	<b>&gt;25μ</b> 29,46%	<b>Absorbing:</b>	0,1
	<b>&gt;50μ</b> 13,68%		
	<b>&gt;70μ</b> 2,30%		
	<b>&gt;100μ</b> %		
	<b>d(0,5)</b> 14,02μ		

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

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

This material is lead and cadmium free.

