

DATA SHEET

50107700 SILICATO ZIRCONIO 300

07/08/2025 v1.3

1. PRODUCT IDENTIFICATION

Description Zirconium silicate ZrO₂.SiO₂.

Application Raw material in the ceramics industry.

2. CHEMICAL COMPOSITION

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

Li ₂ O	ZnO	Cr ₂ O ₃	CaF ₂
Na ₂ O	MnO	B ₂ O ₃	Bi ₂ O ₃
K ₂ O	CdO	V ₂ O ₅	P ₂ O ₅ 0,11
MgO	CoO	MnO ₂	BeO
CaO 0,07	NiO	SiO ₂ 32,87	CeO ₂
SrO	Al ₂ O ₃ 0,11	TiO ₂ 0,14	CuO
BaO	Fe ₂ O ₃ 0,06	ZrO ₂ 66,64	Pr ₂ O ₃
PbO	Sb ₂ O ₃	SnO ₂	

3 PHYSICAL-CHEMICAL PROPERTIES

Aspect White powder
Color(fired)

4. COLORIMETRY

* By Minolta ChromaControl (S)

L: n.a. a: n.a. b: n.a.

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 C°	T ^a Softening C°	Melting point C°
						2250 C°

6. GRANULOMETRIC DISTRIBUTION (WET WAY)

* Data obtained by Malvern Instruments (Master Sizer 2000)

>10μ	>25μ	>40μ	>70μ	>120μ	D50μ
68.7	38.1	18.7	3.2	0	18.5

7. RECOMMENDATIONS ON GLAZED OBJECTS INTENDED FOR CULINARY USE

Raw material .

Notes: n.a (not applicable), n.d (no information available), p.n (negative tests)

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