



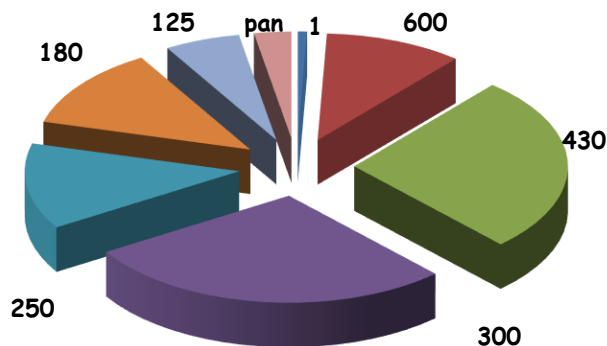
PRODUCT DATA SHEET

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

CODE	9372
NAME	Bico Bianca
DESCRIPTION	Atomized white mix for porous wall tiles in double firing

PARTICLE SIZE DISTRIBUTION

sieve opening	residual
1 mm	0,7%
600 μm	10,5%
430 μm	26,8%
300 μm	28,2%
250 μm	13,0%
180 μm	12,3%
125 μm	5,7%
pan	2,8%



PROPERTIES BEFORE FIRING

Forming pressure	250 Kg/cm ²	Modulus of rupture of green body	9 Kg/cm ²
Linear expansion after pressing	0,42%	Modulus of rupture of dried body	25 Kg/cm ²
Moisture of atomised	5,9%	Specific surface M.B.I.	45 m ² /g

PROPERTIES AFTER FIRING ¹

Thermal work of kiln ²	1030 °C
Linear shrinkage	-0,3%
Water absorption	22,0%
Loss on ignition	11,5%
Modulus of rupture of fired body	200 Kg/cm ²
Linear expansion coeff. 20-400°C ³	$72 \times 10^{-7} \text{°K}^{-1}$
Moisture expansion ⁵	0,02%

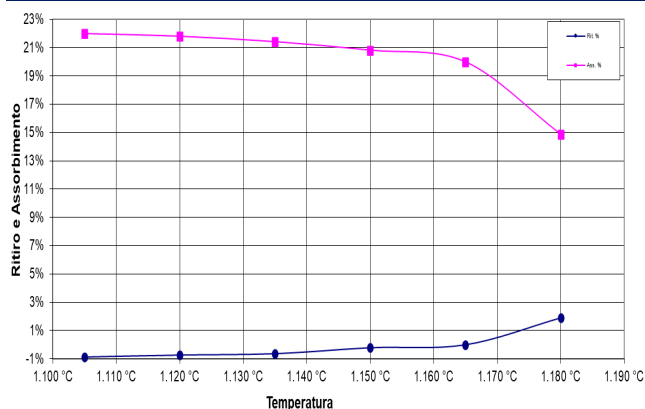
Colorimetric values ⁴

L* (white)	85
a* (red-green)	3
b* (yellow-blue)	11
Fired colour approx.	white

CHEMICAL ANALYSIS

SiO ₂	58%
Al ₂ O ₃	15%
Fe ₂ O ₃	0,8%
TiO ₂	0,5%
CaO	6,7%
MgO	3,3%
Na ₂ O	1,8%
K ₂ O	2,1%
I.o.i.	11,5%

GREIFICATION DIAGRAM



Notes:

- ¹ Samples are fired in laboratory kiln of 3,6 m.
- ² Measured with BULLER ring fired on a refractory tile of 25x30 cm.
- ³ 10°C/min. gradient.
- ⁴ Illuminant/Observer = D65/10°. ColorQUEST Sphere: Stdz Mode: RSIN.
- ⁵ Measured according to standard UNI EN ISO 10545-3:2018

The data mentioned are average values obtained from production and laboratory controls

October 2024