



PRODUCT DATA SHEET

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

CODE

9372

NAME

Bico Bianca

DESCRIPTION

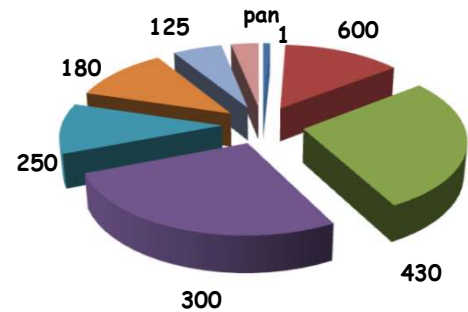
Atomized white mix for porous wall tiles in double firing

CHEMICAL ANALYSIS

SiO ₂	57.0%
Al ₂ O ₃	13.0%
Fe ₂ O ₃	0.6%
TiO ₂	0.4%
CaO	7.6%
MgO	3.8%
Na ₂ O	2.4%
K ₂ O	2.8%
l.o.i.	12.4%

PARTICLE SIZE DISTRIBUTION

sieve opening	residual
1 mm	0.8%
600 µm	13.7%
430 µm	27.7%
300 µm	26.9%
250 µm	10.5%
180 µm	11.4%
125 µm	5.7%
pan	3.2%



PROPERTIES BEFORE FIRING

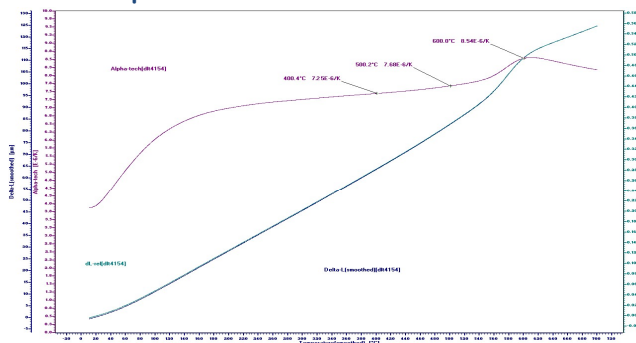
Forming pressure	250 Kg/cm ²	Modulus of rupture of green body	8 Kg/cm ²
Linear expansion after pressing	0,18 %	Modulus of rupture of dried body	23 Kg/cm ²
Moisture of atomised	5,9 %	Specific surface M.B.I.	39 m ² /g

PROPERTIES AFTER FIRING

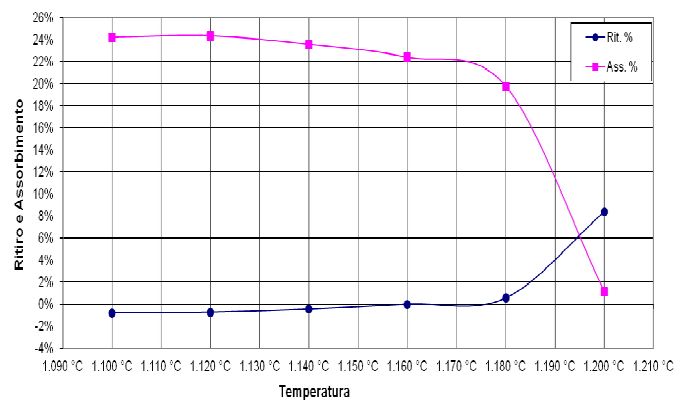
Firing cycle ¹	35 min.	Modulus of rupture of fired body	170 Kg/cm ²
Firing temperature	1160 °C	Colorimetric values ⁴	
Thermal work of kiln ²	1034 °C	L* (white)	87
Linear shrinkage	0,0 %	a* (red-green)	2
Water absorption	21.7%	b* (yellow-blue)	8
Loss on ignition	12.4%	Fired colour approx.	Bianco
Moisture expansion ³	0.03%		

DILATOMETRIC ANALYSIS ON FIRED BODY⁵

Linear expansion coeff. 20-400° C 75 x 10⁻⁷°K⁻¹



GREIFICATION DIAGRAM



Notes:

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

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

September 2020