



PRODUCT DATA SHEET

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

CODE
NAME
DESCRIPTION

9370

Terre Bianche

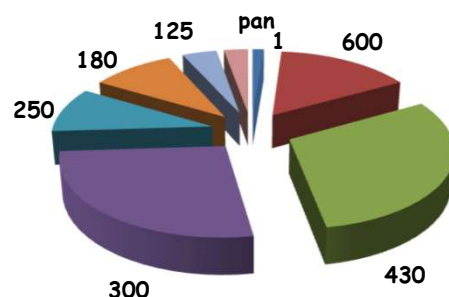
Atomized white mix for monoporosa wall tiles

CHEMICAL ANALYSIS

SiO ₂	62.0%
Al ₂ O ₃	15.5%
Fe ₂ O ₃	0.7%
TiO ₂	0.7%
CaO	4.8%
MgO	1.6%
Na ₂ O	2.8%
K ₂ O	2.8%
l.o.i.	9.1%

PARTICLE SIZE DISTRIBUTION

sieve opening	residual
1 mm	1.3%
600 µm	15.6%
430 µm	30.4%
300 µm	26.7%
250 µm	9.5%
180 µm	9.7%
125 µm	4.0%
pan	2.8%



PROPERTIES BEFORE FIRING

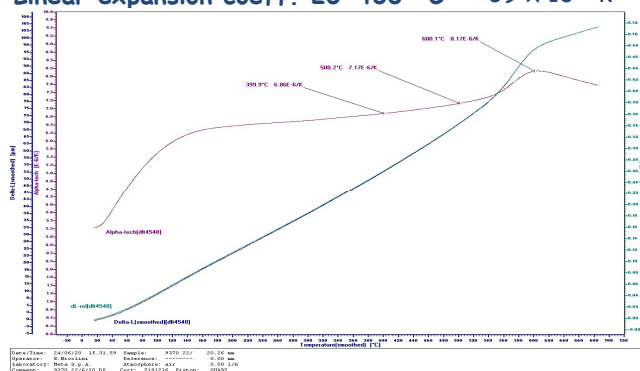
Forming pressure	250 Kg/cm ²	Modulus of rupture of green body	9 Kg/cm ²
Linear expansion after pressing	0.22%	Modulus of rupture of dried body	32 Kg/cm ²
Moisture of atomised	5.9%	Specific surface M.B.I.	49 m ² /g

PROPERTIES AFTER FIRING

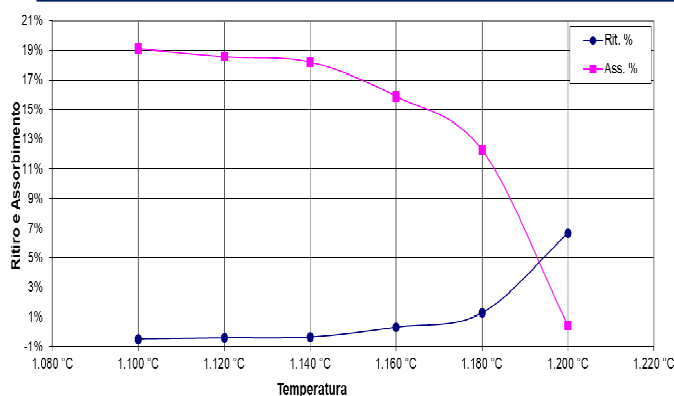
Firing cycle ¹	35 min.	Modulus of rupture of fired body	250 Kg/cm ²
Firing temperature	1160 °C	Colorimetric values ⁴	
Thermal work of kiln ²	1034 °C	L* (white)	85
Linear shrinkage	0.5%	a* (red-green)	2
Water absorption	15.9%	b* (yellow-blue)	10
Loss on ignition	9.1%	Fired colour approx.	white
Moisture expansion ³	0.03%		

DILATOMETRIC ANALYSIS ON FIRED BODY⁵

Linear expansion coeff. 20-400° C $69 \times 10^{-7} \text{ } ^\circ\text{K}^{-1}$



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