



PRODUCT DATA SHEET

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

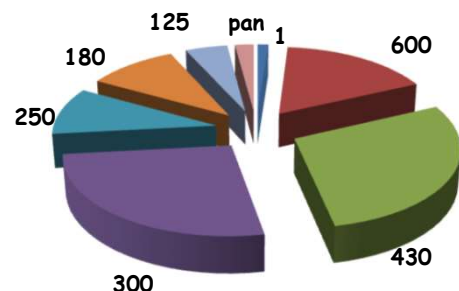
CODE	9102
NAME	Zeta/2
DESCRIPTION	Atomized neutral base for extruded porcelain stoneware

CHEMICAL ANALYSIS

SiO ₂	69.5%
Al ₂ O ₃	18.5%
Fe ₂ O ₃	0.7%
TiO ₂	0.7%
CaO	0.4%
MgO	0.4%
Na ₂ O	4.3%
K ₂ O	1.8%
l.o.i.	3.4%
C	0.09%
S	0.02%

PARTICLE SIZE DISTRIBUTION

sieve opening	residual
1 mm	1.2%
600 µm	16.9%
430 µm	28.8%
300 µm	26.4%
250 µm	9.8%
180 µm	10.1%
125 µm	4.7%
pan	2.1%



PROPERTIES BEFORE FIRING

Forming pressure	400 Kg/cm ²	Modulus of rupture of green body	10 Kg/cm ²
Linear expansion after pressing	0.23%	Modulus of rupture of dried body	45 Kg/cm ²
Moisture of atomised	5.9%	Specific surface M.B.I.	48 m ² /g

PROPERTIES AFTER FIRING

Firing cycle ¹	52 min.	Modulus of rupture of fired body	730 Kg/cm ²
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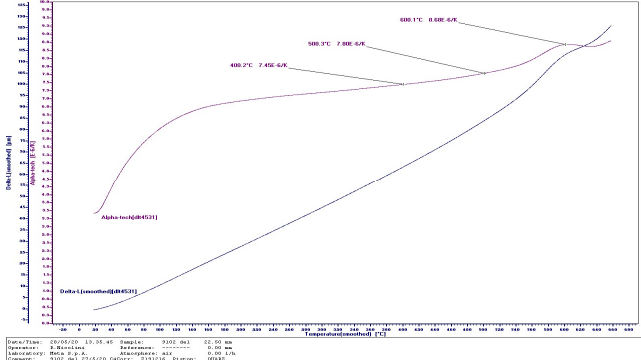
Firing temperature	1230 °C
Thermal work of kiln ²	1132 °C
Linear shrinkage	6.3%
Water absorption	0.03%
Loss on ignition	3.4%
Moisture expansion ³	n.d.

Colorimetric values⁴

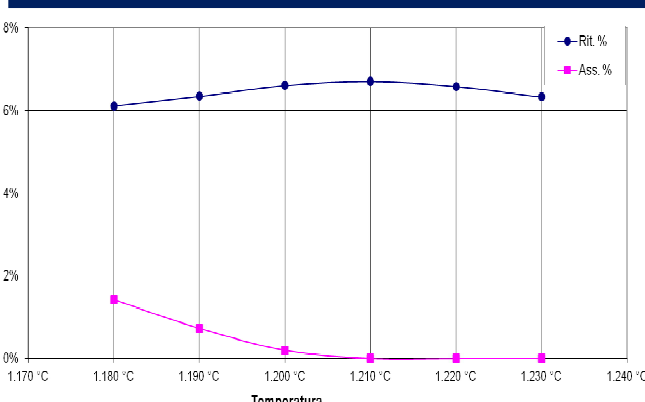
L* (white)	73
a* (red-green)	2
b* (yellow-blue)	13
Fired colour approx.	Ivory

DILATOMETRIC ANALYSIS ON FIRED BODY⁵

Linear expansion coeff. 20-400° C $74 \times 10^{-7} \text{°K}^{-1}$



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 after 2 hours in boiling water and 24 hours of chilling submersed.
- 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