



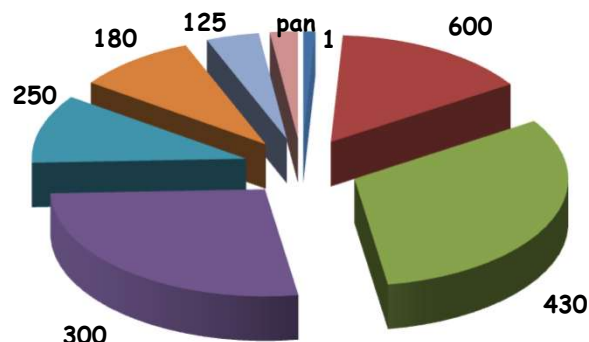
PRODUCT DATA SHEET

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

CODE	9050
NAME	Tecnogrès
DESCRIPTION	Atomized ceramic mix for glazed porcelain stoneware

PARTICLE SIZE DISTRIBUTION

sieve opening	residual
1 mm	0,9%
600 µm	15,0%
430 µm	31,6%
300 µm	26,9%
250 µm	10,4%
180 µm	9,1%
125 µm	4,0%
pan	2,1%



PROPERTIES BEFORE FIRING

Forming pressure	400 Kg/cm ²	Modulus of rupture of green body	9 Kg/cm ²
Linear expansion after pressing	0,5%	Modulus of rupture of dried body	30 Kg/cm ²
Moisture of atomised	5,7%	Specific surface M.B.I.	43 m ² /g

PROPERTIES AFTER FIRING ¹

Thermal work of kiln ²	1135 °C
Linear shrinkage	6,3%
Water absorption	0,10%
Loss on ignition	3,7%
Modulus of rupture of fired body	520 Kg/cm ²
Linear expansion coeff. 20-400°C ³	80 × 10 ⁻⁷ °K ⁻¹

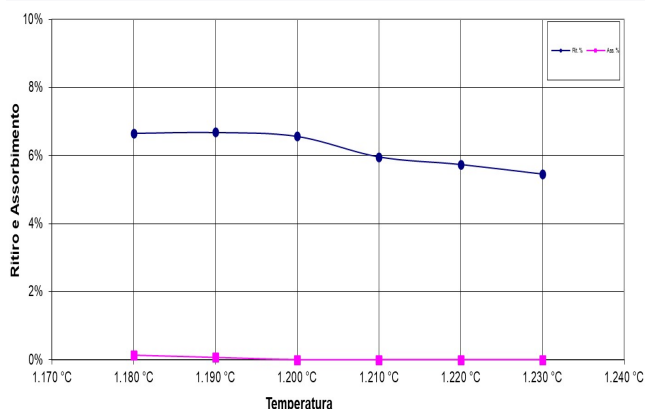
Colorimetric values ⁴

L* (white)	62
a* (red-green)	3
b* (yellow-blue)	11
Fired colour approx.	Grey

CHEMICAL ANALYSIS

SiO ₂	69%
Al ₂ O ₃	17%
Fe ₂ O ₃	1,1%
TiO ₂	0,6%
CaO	0,9%
MgO	0,9%
Na ₂ O	3,3%
K ₂ O	2,8%
C tot	0,19%
S tot	0,04%
I.o.i.	3,7%

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.

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

October 2024