PRODUCT DATA SHEET

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

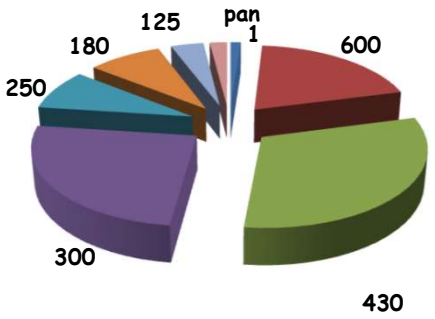
CODE	9050
NAME	Tecnogrès
DESCRIPTION	Atomized ceramic mix for glazed porcelain stoneware

CHEMICAL ANALYSIS

SiO_2	71.5%
Al_2O_3	16.5%
Fe_2O_3	0.8%
TiO_2	0.5%
CaO	0.7%
MgO	0.5%
Na_2O	3.1%
K_2O	3.1%
l.o.i.	3.0%

PARTICLE SIZE DISTRIBUTION

sieve opening	residual
1 mm	1.2%
600 µm	19.8%
430 µm	31.0%
300 µm	25.2%
250 µm	8.6%
180 µm	8.6%
125 µm	3.8%
pan	2.0%



PROPERTIES BEFORE FIRING

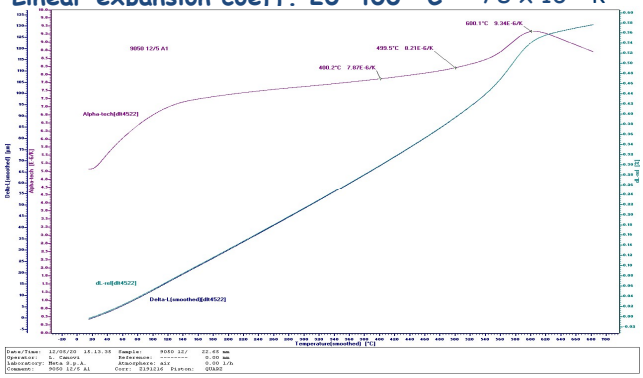
Forming pressure	400 Kg/cm^2	Modulus of rupture of green body	9 Kg/cm^2
Linear expansion after pressing	0.24%	Modulus of rupture of dried body	33 Kg/cm^2
Moisture of atomised	5.9%	Specific surface M.B.I.	45 m^2/g

PROPERTIES AFTER FIRING

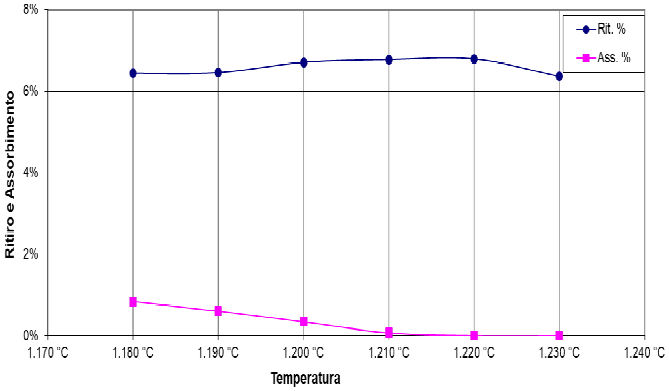
Firing cycle[1]	52 min.	Modulus of rupture of fired body	630 Kg/cm^2
Firing temperature	1220 °C		
Thermal work of kiln[2]	1117 °C	Valori colorimetrici[4]	
Linear shrinkage	6.6%	L* (white)	65
Water absorption	0.09%	a* (red-green)	2
Loss on ignition	3.0%	b* (yellow-blue)	10
Moisture expansion[3]	n.d.	Fired colour approx.	Beige

DILATOMETRIC ANALYSIS ON FIRED BODY[5]

Linear expansion coeff. 20-400° C 78 x 10^{-7}°K^{-1}



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 Measured after 2 hours in boiling water and 24 hours of chilling submersed.
4 Illuminant/Observer = D65/10°. ColorQUEST Sphere: Stdz Mode: RSIN.
5 10°C/min gradient.

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

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