



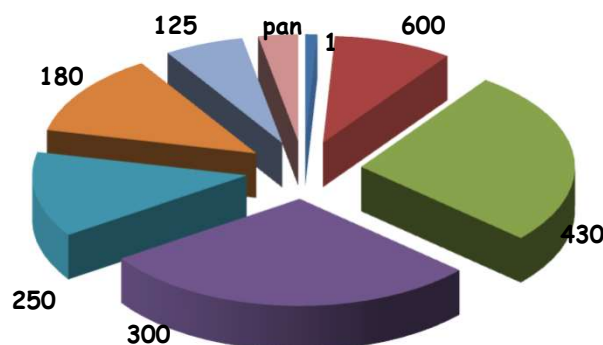
## PRODUCT DATA SHEET

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

|             |                                         |
|-------------|-----------------------------------------|
| CODE        | 9159                                    |
| NAME        | Bianco Lux                              |
| DESCRIPTION | Atomized white base for porcelain tiles |

### PARTICLE SIZE DISTRIBUTION

| sieve opening     | residual |
|-------------------|----------|
| 1 mm              | 0,9%     |
| 600 $\mu\text{m}$ | 9,0%     |
| 430 $\mu\text{m}$ | 26,7%    |
| 300 $\mu\text{m}$ | 29,0%    |
| 250 $\mu\text{m}$ | 12,9%    |
| 180 $\mu\text{m}$ | 12,5%    |
| 125 $\mu\text{m}$ | 6,0%     |
| pan               | 3,0%     |



### PROPERTIES BEFORE FIRING

|                                 |                        |                                  |                       |
|---------------------------------|------------------------|----------------------------------|-----------------------|
| Forming pressure                | 400 Kg/cm <sup>2</sup> | Modulus of rupture of green body | 9 Kg/cm <sup>2</sup>  |
| Linear expansion after pressing | 0,50%                  | Modulus of rupture of dried body | 35 Kg/cm <sup>2</sup> |
| Moisture of atomised            | 5,7%                   | Specific surface M.B.I.          | 48 m <sup>2</sup> /g  |

### PROPERTIES AFTER FIRING <sup>1</sup>

|                                               |                                    |
|-----------------------------------------------|------------------------------------|
| Thermal work of kiln <sup>2</sup>             | 1135 °C                            |
| Linear shrinkage                              | 6,6%                               |
| Water absorption                              | 0,05%                              |
| Loss on ignition                              | 3,9%                               |
| Modulus of rupture of fired body              | 520 Kg/cm <sup>2</sup>             |
| Linear expansion coeff. 20-400°C <sup>3</sup> | $76 \times 10^{-7} \text{°K}^{-1}$ |

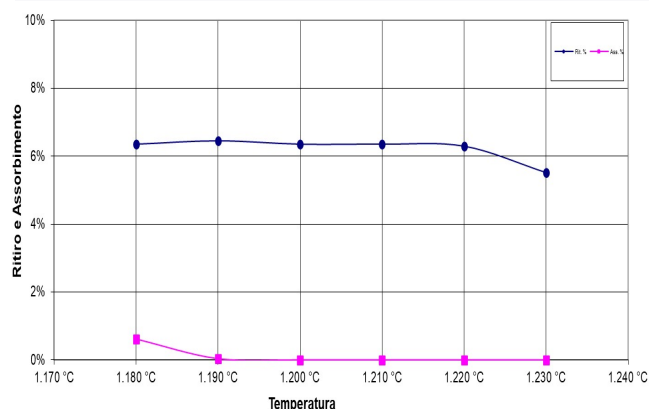
#### Colorimetric values <sup>4</sup>

|                      |       |
|----------------------|-------|
| L* (white)           | 76    |
| a* (red-green)       | 2     |
| b* (yellow-blue)     | 11    |
| Fired colour approx. | white |

### CHEMICAL ANALYSIS

|                                |       |
|--------------------------------|-------|
| SiO <sub>2</sub>               | 67%   |
| Al <sub>2</sub> O <sub>3</sub> | 20%   |
| Fe <sub>2</sub> O <sub>3</sub> | 0,6%  |
| TiO <sub>2</sub>               | 0,5%  |
| CaO                            | 1,3%  |
| MgO                            | 0,6%  |
| Na <sub>2</sub> O              | 5,5%  |
| K <sub>2</sub> O               | 1,1%  |
| C tot                          | 0,20% |
| S tot                          | 0,01% |
| I.o.i.                         | 3,9%  |

### GREIFICATION DIAGRAM



#### Notes:

- <sup>1</sup> Samples are fired in laboratory kiln of 3,6 m.  
<sup>2</sup> Measured with BULLER ring fired on a refractory tile of 25x30 cm.  
<sup>3</sup> 10°C/min. gradient.  
<sup>4</sup> Illuminant/Observer = D65/10°. ColorQUEST Sphere: Stdz Mode: RSIN.

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

October 2024