

## Technical Data Sheet.

Product Name : Grolleg China Clay

Product Number : P3298

### Appearance:

A high quality white firing clay used extensively in vitreous tableware formulations. It is also suitable for high quality earthenware, electrical porcelains and casting applications.

| Product Specification                   | Value       | Range |      |
|---|-------------|-------|------|
|   |             | Min   | Max  |
| Chemical Composition (mass %)           |             |       |      |
| Fe <sub>2</sub> O <sub>3</sub>          | : 0.75      | 0.68  | 0.82 |
| K <sub>2</sub> O                        | : 1.85      | 1.67  | 2.03 |
| SiO <sub>2</sub>                        | : 49.0      |       |      |
| Al <sub>2</sub> O <sub>3</sub>          | : 36.0      |       |      |
| TiO <sub>2</sub>                        | : 0.02      |       |      |
| CaO                                     | : 0.06      |       |      |
| MgO                                     | : 0.30      |       |      |
| Na <sub>2</sub> O                       | : 0.10      |       |      |
| L.O.I.                                  | : 12.0      |       |      |
| Particle Size (mass%)                   |             |       |      |
| +53 micron                              | : 0.05 max. |       |      |
| +8 micron                               | : 8         | 5     | 11   |
| -2 micron                               | : 58        | 52    | 64   |
| Modulus of Rupture (MNm <sup>-2</sup> ) |             |       |      |
| 80%RH                                   | : 1.0       | 0.7   | 1.3  |

### Casting Data.

|   |      |
|---|------|
| Casting concentration (mass % solids) :             | 61.0 |
| P84 de-flocculent demand (mass%) :                  | 0.50 |
| Casting rate (mm <sup>2</sup> min <sup>-1</sup> ) : | 0.50 |

### Fired Properties :

|                         |         |        |
|-------------------------|---------|--------|
| Water absorption(mass%) | 1180 °C | : 13.0 |
|                         | 1280 °C | : 6.5  |
| Brightness (%)          | 1180 °C | : 86.0 |
|                         | 1280 °C | : 84.0 |
| Contraction (%)         | 1180 °C | : 9.0  |
|                         | 1280 °C | : 13.0 |