

## Product Clay UA

**TAI 11**

### Chemical composition

| Oxides                         | Raw (%)      | Fired (%)     | Range (%) |
|--------------------------------|--------------|---------------|-----------|
| SiO <sub>2</sub>               | 65.80        | 70.62         |           |
| TiO <sub>2</sub>               | 1.32         | 1.42          |           |
| Al <sub>2</sub> O <sub>3</sub> | 22.50        | 24.15         | ± 0.5     |
| CaO                            | 0.23         | 0.25          |           |
| Fe <sub>2</sub> O <sub>3</sub> | 0.92         | 0.99          | ± 0.1     |
| MgO                            | 0.48         | 0.52          |           |
| K <sub>2</sub> O               | 1.57         | 1.68          |           |
| Na <sub>2</sub> O              | 0.36         | 0.39          |           |
| <b>Total without LOI</b>       | <b>93.18</b> | <b>100.00</b> |           |
| <b>L.O.I.</b>                  | <b>6.65</b>  |               |           |
| <b>Total</b>                   | <b>99.83</b> |               |           |

**Sulphur** 0.06 %  
**Carbon** 0.11 %

### Computed mineralogical comp.

| Minerals           | %            | L.O.I.      |
|--------------------|--------------|-------------|
| Quarz              | 33.53        |             |
| Kaolin             | 41.91        | 5.85        |
| Illite & Hydromica | 16.85        | 0.74        |
| Albite             | 3.04         |             |
| Hematite           | 0.88         |             |
| Rutile             | 1.32         |             |
| Anorthite          | 1.15         |             |
| Talc               | 1.31         | 0.06        |
| <b>Total</b>       | <b>99.99</b> | <b>6.65</b> |

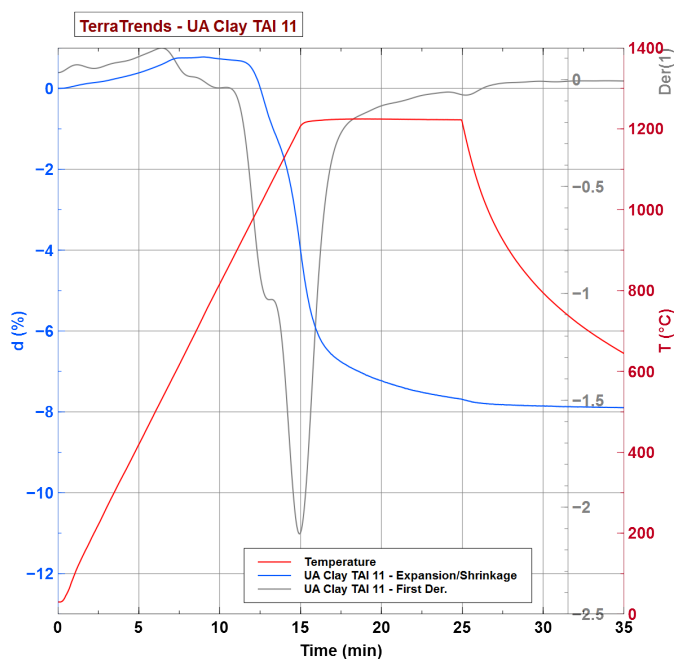
### pH

8.13

### Specific surface (m<sup>2</sup>/gr)

100

### Firing



|                                |                |
|--------------------------------|----------------|
| <b>Firing temperature</b>      | <b>1220° C</b> |
| <b>Time at max temperature</b> | <b>10 min</b>  |
| <b>Total shrinkage</b>         | <b>7.44 %</b>  |
| <b>Water absorption</b>        | <b>1.61 %</b>  |