

TECHNICAL DATA SHEET

PRODUCT TYPE

ThermECO Low Temperature Sanitaryware Refire Glaze

APPEARANCE

White ground glaze supplied as an aqueous suspension or as a moist, easily dispersed powder.

PRODUCT PROFILE

Leadless low firing, fully opaque, refire glazes for use on prefired sanitaryware. These products have been designed to meet the challenge of rising industry energy prices by reducing the total energy consumption during typical sanitaryware refire cycles.

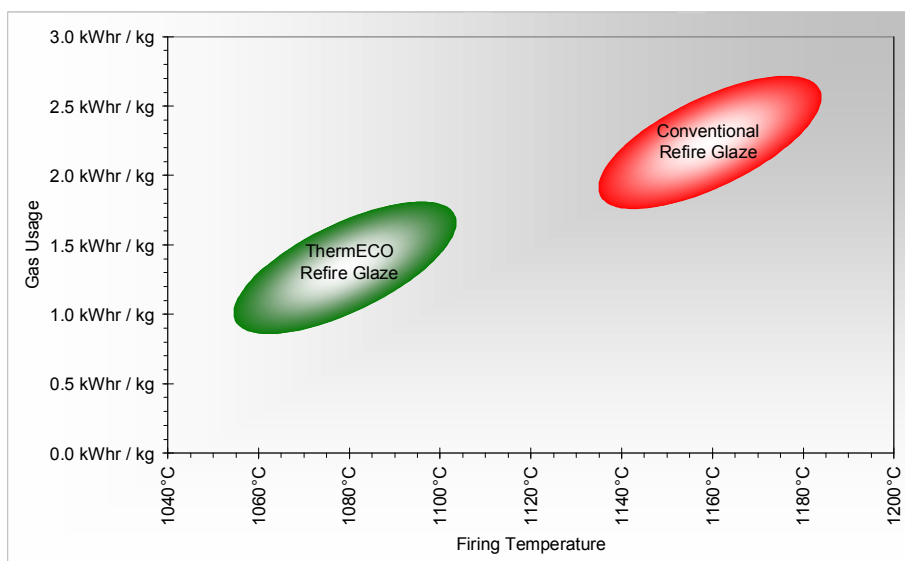
These products are part of Endeka Ceramic's energy saving **ThermECO** range.

1) PROPERTY

PRODUCT DETAIL

1.1 Firing Conditions

These products have been designed to mature through a range of firing conditions: oxidising and slightly reducing, gas and electric enabled. Dependent on the kiln conditions and the exact product formulation chosen, the anticipated firing range of these products is between 1040°C and 1110°C (or green bullers ring values 11 – 21).



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- 1.2 Compatibility** The products are compatible with both traditional Sanitaryware industry bodies and once-fire glazes, as well as with Endeka Ceramic's **ThermECO** low temperature bodies and glazes.
- 1.3 Fired appearance** These products' afford a piece a high-quality gloss finish, with excellent opacity and coverage characteristics. Suitable both for patch repairing and all over respray application, which can enhance an article's aesthetic appearance.
- 1.4 Colour** These lower-firing glaze systems can be colour modified to match most of the traditional Sanitaryware colours, using Datacolor colour tools software and Endeka Ceramic's fully trained technicians.
- 1.5 BS test data** These products pass the BS3402 test procedure for chemical and stain resistance for sanitaryware.
- 1.6 Rheology** These products are available with a range of different rheologies designed to meet specific customer application requirements.
- 1.7 Chemical Composition** The products are lead and barium free. Typical fired analyses are within the following ranges:
Al₂O₃: 8 – 11, B₂O₃: 0 – 8, SiO₂: 60 – 65, ZnO: 3 – 7
ZrO₂: 4 – 8, RO: 4 – 8, R₂O: 5 – 7
- 1.8 PSD range** 60-76 % < 14µm
- 1.9 TE range** 0.260 – 0.285% at 500°C
- 1.10 Mode of supply** The products can be supplied:
✓ in slop form in 200kg drums, 1 tonne IBC or by tanker
✓ dry readymix glaze in 25kg bags (typical moisture content <9wt%)
- 1.11 Fusibility/Viscous Flow** The products are closely controlled for glass fusibility and viscous flow properties, to ensure a consistent uniform performance is maintained batch to batch.

1.12 Screening and magnetting

The finished glaze is subject to fine screening (0.112mm nominal aperture mesh) and high-powered (10,500 gauss) magnetic separation.



ISO 9001 - 2008 Registered Firm
Certificate Number: FM518117