

## TECHNICAL DATA SHEET

### PRODUCT TYPE

**ThermECO** Low Temperature  
Hotelware & Fine China Glazes

### APPEARANCE

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

### PRODUCT PROFILE

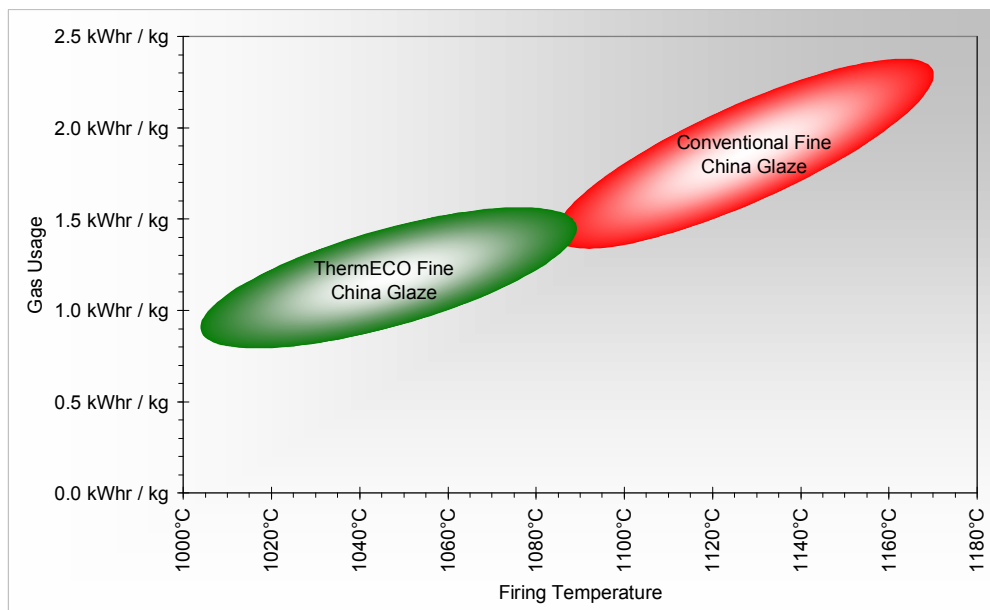
Leadless, lower-firing, high gloss, transparent glazes for use on prefired hotelware and fine china biscuit. These products have been designed to offset rising industry energy prices by reducing the peak firing temperature and thereby the total energy consumption during hotelware or fine china firing cycles. These products are part of Endecka Ceramic's energy saving **ThermECO** range.

## 1) PROPERTY

### 1.1 Firing Conditions

## PRODUCT DETAIL

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 1010°C and 1100°C (or green bullers ring values 11 – 21).



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- 1.2 Decoration Compatibility** The products are compatible with most types of traditional decoration: underglaze, inglaze and onglaze. The products support a wide palette of decorative colours.
- 1.3 Fired appearance** These products afford a piece a high-quality gloss finish, with excellent brilliance and superb flatness characteristics.
- 1.4 Chemical Durability** These products have excellent chemical durability characteristics and pass a wide range of industry tests. For details of specific test protocols, please contact the Endeka Ceramics' Sales team.
- 1.5 Physical Durability** The products provide excellent resistance to all forms of in-service damage, including metal-marking and scratch/scuff damage. Comparative product testing versus existing glazes can be undertaken, on request by Endeka Ceramics' highly trained technical staff using state-of-the-art article-testing equipment.
- 1.6 Metal Release** The product passes all worldwide metal release tests. If fired through a contaminated kiln, a certain amount of initial 'pickup' from the kiln atmosphere is to be expected, this may influence the final metal release performance of the articles.
- 1.7 Rheology** Products are available to offer a wide range of different rheologies, which can be individually designed to meet specific customer application requirements.
- 1.8 PSD range** 63 – 68 % < 14µm
- 1.9 TE range** 0.275 – 0.310 % 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 (0.075mm nominal aperture mesh) and high-powered (10,500 gauss) rare earth magnetic separation.
- 1.13 Further Information** For any further technical information or to obtain a Materials Safety Data Sheet (MSDS), please contact the Endeka Ceramics' Sales team.



ISO 9001 : 2008 Registered Firm  
 Certificate Number: FM516117