www.lmkthermosafe.co.uk
www.inteliheat.com

THERMOSAFE LMK LTD

Industrial Heating Technology
for drums IBCs totes & containers

Tel: +44 (0)1440 707141
sales@drumheating.com

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Haverhill, Suffolk CB9 7AA England

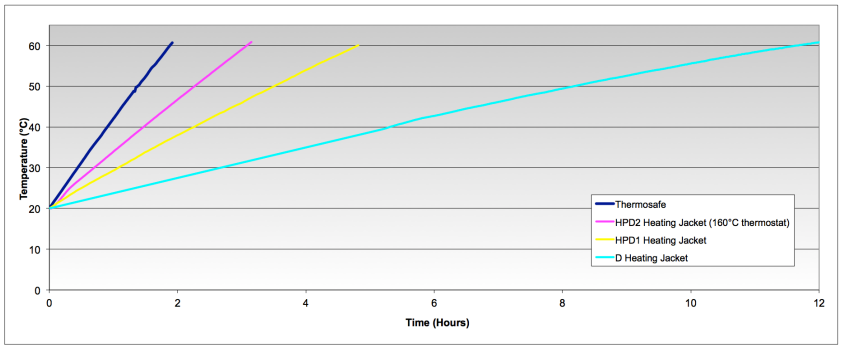
200L Drum Heating Performance

LMK Thermosafe, world leaders in drum and container heating, manufacture a variety of products suited to heating 200L drums.

Selection of the correct equipment is dependent on many factors including material type, required operating temperature and desired heating rates. LMK Thermosafe are pleased to assist customers in the selection of the correct equipment for their particular application.

Safe Area Heating

Various standard heating jackets are available for 200L containers. Measurements of performance for the popular HPD1, HPD2 and HJD versions, compared with a Thermosafe Induction Heater are shown below.



Time taken to heat a 200L drum of light oil to 60°C



HPD1 Jacket, HJD Jacket and HPD2 Jacket

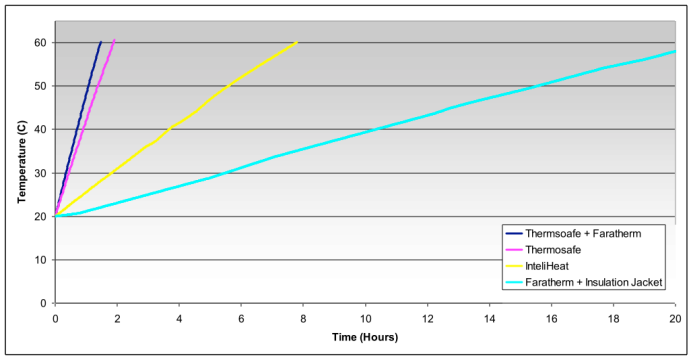
The type D jacket is ideally suited to the warming of liquids and anti-freeze requirements. For demanding applications, heating to elevated temperatures and melting solids, the HPD1 and HPD2 heating jackets are recommended.

Hazardous Area Heating

LMK Thermosafe manufacture a number of pieces of equipment suitable for heating in potentially explosive atmospheres (certified to ATEX and IECEX standards). The graph below shows a comparison for heating 200 litre drums.



Faratherm+Thermosafe, Thermosafe, Inteliheat, Faratherm+Insulation Jacket



Time taken to heat a 200L drum of light oil to 60°C

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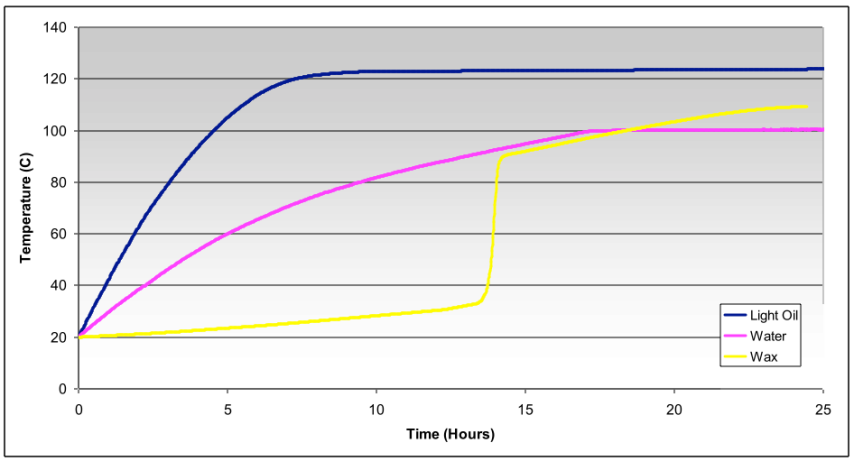
The THERMOSAFE induction heater, with many years of use in industry is perfect for fast heating rates. Add a Faratherm Base Heater for further improvements (especially when melting solids - see graph below). The InteliHeat jacket is ideal for heating liquids, whilst the Faratherm plus an insulated jacket is suitable for warming and anti-freeze projects.

Material Comparison

Heating rates for each piece of equipment are dependent on the properties of the material being heated. The graph below shows the performance of a Thermosafe when heating oil, water and wax (solid at room temperature)



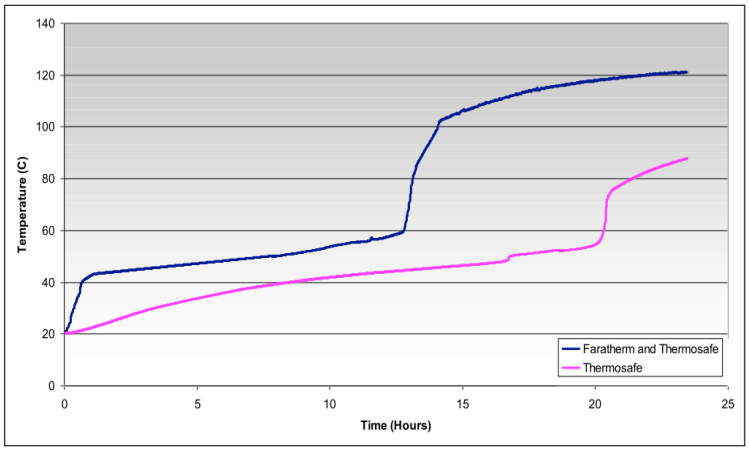
Thermosafe Induction Heater



Temperatures measured at centre of material inside drum

Melting Solids

The addition of a Faratherm when using a Thermosafe to heat a drum of light oil gives a typical heating time improvement of 23.5% (see earlier graph). The difference when melting waxes and solids is significantly more. The addition of heat to the base of a drum improves performance and reduces material wastage. A 39% time reduction for a full drum of "Fuchs" wax to be melted to 80C has been demonstrated and recorded.



Temperatures measured at hardest to heat location (centre of drum near base)



Faratherm+Thermsoafe, Thermosafe