

**Technical Project Notes** **TPN14.01/06**

## LMK Thermosafe help to heat up Food Processing Industry



Product development in any industry always brings new technical challenges and hurdles. The introduction of Alpen Cereal Bars was no different for leading British breakfast cereal manufacturer, Weetabix Ltd. One problem was large containers of glucose based solutions that needed to be heated and kept at optimum temperature before blending with other ingredients as part of the manufacturing process.

Weetabix found a perfect solution with LMK's dual circuit IBC2 Flexible Heating Jacket. Able to quickly raise temperatures of large volumes of liquids and efficiently retain heat, each jacket utilizes tough, water resistant nylon for the outer layer, and custom coated heat and chemical resistant materials for the inner layers, with high efficiency insulation inside to reduce heat-loss to a minimum.

LMK Thermosafe Ltd manufacture a wide range of drum and container heating products used in process industries world-wide, including flexible heating jackets in a variety of sizes, materials, power levels and voltages. A wide standard range is available from stock to fit 25, 50, 100 or 205 litre drums as well as 1000 litre IBC containers and totes.

## Concentrated Butter / Milkfat

Specialist manufacturers of biscuits, chocolates, cookies and similar food products in the dairy & catering industries often use very high quality butter concentrates for the best possible taste and texture of their finished articles. A key supplier of this ingredient in Belgium produces concentrated butter containing less than 1% water, made from the highest quality dairy milks.

Certain grades of intermediate products need heating and maintaining at around 40°C to ensure that blending and processing can be accomplished under the correct conditions and without delay to the rest of the process. LMK Thermosafe Ltd. made some custom sized jackets that could fit around both large totes of vegetable oil, and also 4 standard steel drums on a wooden pallet. After an initial highly successful trial, additional jackets were supplied. The very even heat produced is adjustable to suit environmental conditions and container contents. As standard, these jackets are designed for durability in hot, damp or dusty environments, so offer excellent long term reliability.



“Prior to the use of the LMK heating jackets, significant delays could be experienced when certain ingredients were used in our manufacturing process. Fitting these cost effective jackets increased our flexibility, reduced down time during product change-over, and helped maintain consistency”