

**Cellaris**<sup>®</sup>  
Ultralight Ceramics

## *Thermal Insulation*

### Lite-Cell<sup>™</sup>

is a complete line of ultra-light, fiber free thermal insulation products that offer optimal solutions for high temperature industrial and lab-based applications. The superior performance of Lite-Cell<sup>™</sup> products affords customers significant energy savings and cost-effectiveness, providing a distinct competitive edge.



# Thermal Insulation

## *Fiber Free Fast Firing Family*

### Applications

- Hot face insulation
- Laboratory and industrial furnaces
- Electrically and gas fired furnaces
- Light kiln cars
- Operational temperature - above 1700°C
- Hydrogen & CO atmospheres
- Oxidizing & neutral atmospheres

### The Lite-Cell™ Edge

- Fiber Free - Avoids health and environmental hazards
- Gas-permeable surface - easy gas release from below fired parts
- Easy sliding of fired parts - prevents sticking and parts deformation
- Controlled composition - Hydrogen & CO atmospheres
- High purity - Compatible with microwave heating
- High operating temperatures - Above 1700°C
  - Low thermal conductivity - Significant energy savings
  - Fast heating and cooling rates - Higher furnace productivity
  - Low density - Low thermal mass
  - Easy to machine - Complex shapes
  - Rapid & safe repair - Lower down time and maintenance costs

**Fiber  
Free  
Safety**

**Health and Environment Friendly**



Machining details upon request



Custom & standard shapes

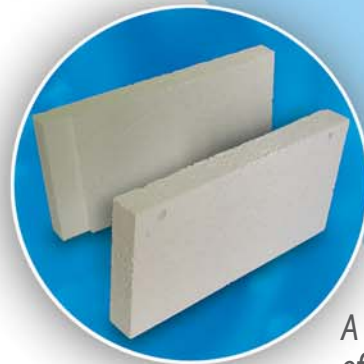
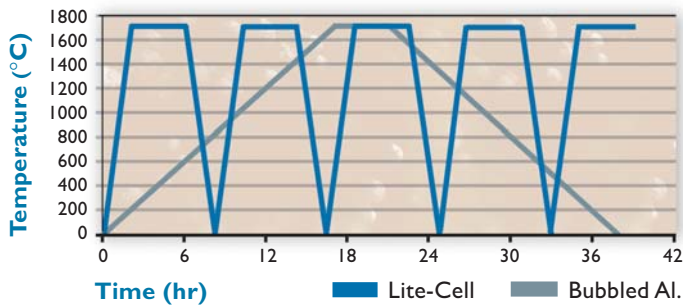


0.5mm

Foamed pellet  
(dia: 0.01mm-3.0mm)

### Fast heating and cooling rates

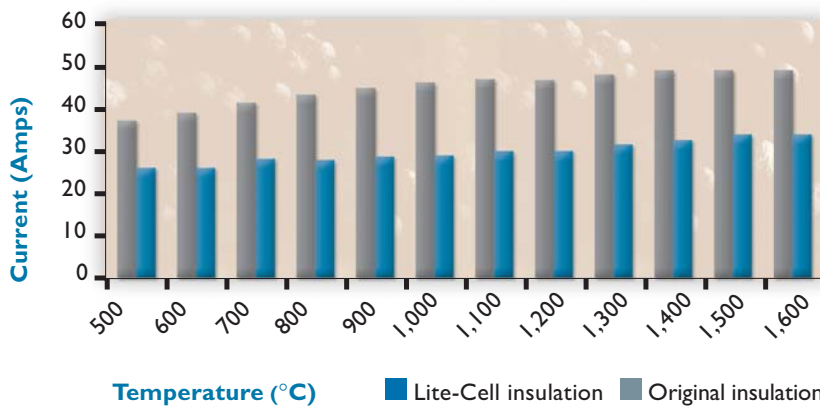
Cycle time comparison



A wide range of products

### Low thermal conductivity

Actual energy saving in a modified commercial furnace



## Cellaris® - Company Profile

Cellaris® manufactures highly porous, ultra-light and non-fibrous ceramic foams for temperatures exceeding 1700°C (3100°F). Our proprietary technology and novel production process provide the next-generation platform for a wide range of high temperatures industrial applications, including furnace insulation, kiln furniture, burner blocks and more.



Cellaris Ltd. Bar-Lev industrial park,  
P.O. Box 15, D.N. Misgav, 20179, Israel

Tel: 972-4-9551918 Fax: 972-4-9551917  
info@cellaris.com www.cellaris.com

Legal Note: This document includes information of significant commercial value, proprietary to Cellaris Ltd. Cellaris Ltd. reserves the right to change its business plans, technical designs and products without any notice.