



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



Cellaris® - Company Profile

Cellaris® develops, manufactures and markets unique ceramic foams capable of withstanding extremely high temperatures, up to 1750 °C (3200 °F). These non-fibrous, highly-porous, ultra-light ceramic products, registered under the trade name of **Lite-Cell®**, are produced by a special, proprietary and patented technology that is based on sol-gel chemistry. **Cellaris®** groundbreaking technology of manufacturing ceramic foams provides the next-generation platform for the multi-billion dollar market of high-temperature applications, including furnace insulation, kiln furniture, burner blocks, heating modules and much more. Other industrial uses include catalysis, filtration and avionic systems.

Lite-Cell® is an ultra-light material, having a porosity of about 90%. It has superior insulating properties which bring about significant energy savings, higher productivity and other operational added values in comparison to traditional materials used today. Furthermore, **Lite-Cell®** is a fiber-free product, which positions it as a viable alternative to the health and safety risks posed by the ceramic fibers currently in use.

Cellaris® technology allows the foaming of pure and mixed oxide materials. Foams that include alumina, silica, zirconia and titania have been made. The company manufactures foamed pellets, designed and adapted for different applications. These pellets are further compressed into standard and easily machined custom-shaped products. This scheme allows maximum flexibility for making **Lite-Cell®** products compatible with a wide spectrum of applications.

The company has designed and built an industrial pilot plant in northern Israel, to prove the technology and set up industrial references. The pilot plant went into operation in 2005. Since then, **Lite-Cell®** has been in operation at many customer sites worldwide. **Lite-Cell®** is being used with great success in diverse applications; such as technical ceramics, MIM, PIM, dental, laboratory, etc. Sales are done both directly and via local distributors with online support from the company.

Following the promising response from the market place and successful installations, the company has completed a preliminary design of a large scale manufacturing facility, to enable a better grasp of the CAPEX & COGS required to establish an industrial plant.

Cellaris® Founder and its CTO, Prof. Gideon Grader, is a world known specialist in ceramic materials and foams, Professor of Chemical Engineering at the Technion – Israel Institute of Technology in Haifa, Israel. **Cellaris®** key manager is Itzick Sheffer, who previously held top-level managerial positions with an Israeli diamond tool enterprise. **Cellaris®** shareholders are among Israel's leading investment groups.