



I SQUARED R ELEMENT CO., INC.



12600 Clarence Center Road, P.O. Box 390, Akron, New York 14001, Phone (716)542-5511, Fax (716)542-2100
e-mail: sales@isquaredrelement.com www.isquaredrelement.com

STARBAR ELEMENT COATINGS

I Squared R offers a special coating for certain severe atmosphere applications.

LMA Infusion Glaze Coating

This coating consists of a complex silicate glass specially formulated to provide a high degree of protection against chemical attack in atmospheres containing water vapor, alkaline metal vapors, flux vapors and in applications that utilize oxygen enrichment, including; non-ferrous metal melting and holding, glass melting and refining, brazing, sintering of powdered metal components, and pre-sintering of powders for lithium ion battery cells.

SL Coating

This coating is a silicon carbide/silica composite. It is applied in 2 parts, an organic based pretreatment followed by a mix of silicon carbide and colloidal silica. The coating is cured to provide an adherent coating that covers the outside surface of the heating element. The organic portion burns away during the cure step to leave SiC and SiO₂. This coating acts as a physical barrier to chemical attack on the heating elements.

ZL Coating

This coating is a zirconia/silica based coating. When applied to the hot zone, this coating acts as a physical barrier to attack. When applied to the cold ends, the coating prevents the elements from sticking to the furnace refractory.