

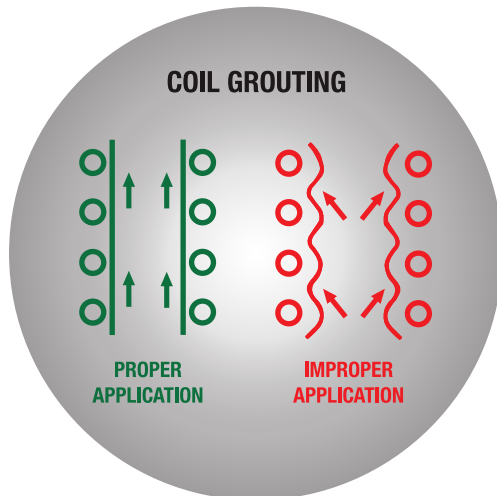
Mel+Care

Presented by:
EMSCO
An Inductotherm Group Company

A Technical Review of Common Induction Furnace Maintenance Issues

Uneven Coil Grouting Leads To Abbreviated Furnace Life

There are several variables that can make or break your furnace when it comes to longevity and productivity, one of which is the level of care and craft that goes into the application of your grout or coil coat.



Improper Application Increases Downtime and Leads to Lost Production.

Most refractories will expand. The key to controlling this expansion is smooth and properly applied grout. Uneven or wavy surfaces in the grout create “pockets.” Refractory tends to collect in these “pockets” and pushes against the coil during expansion. Once the pressure against the coil reaches critical mass, supports and joints begin to break, tubing becomes stretched and distorted, and the coil diameter begins to expand in areas. Each of these symptoms ultimately leads to an inefficient melt system.

Uncontrolled Expansion Leads to Premature Failure.

The tops, bottoms, side panels, and aluminium frames will be damaged and fail prematurely if the expansion is not controlled through proper grout application. Additionally, the extra pressure applied to steel frame and shell furnaces leads to premature cracking on top castable segments, the distortion of top steel rings, and the development of flat spots on coils.



A Tip From The Melting Industry's First Responder:

To prevent premature setting or hardening, your coil grout professional needs to consider how the climate in your location will affect your grout. If you use a push-out system, be certain your service partner has experience applying the special taper-type grout system required for your coil.

EMSCO Recommends Professional Grouting.

Maintaining a partnership with a service expert that has the trust of the industry and a successful track record with coil grouting and coating is the best way to ensure your melt system is living up to performance expectations. EMSCO has been providing professional grouting services for rebuilt and new coils for 40 years. We use quality materials, including our specially formulated grouts, and address all applications and environments to ensure optimal furnace performance.

For more information, or to schedule a consultation and service, call us today at [877.77.EMSCO](tel:877.77.EMSCO).