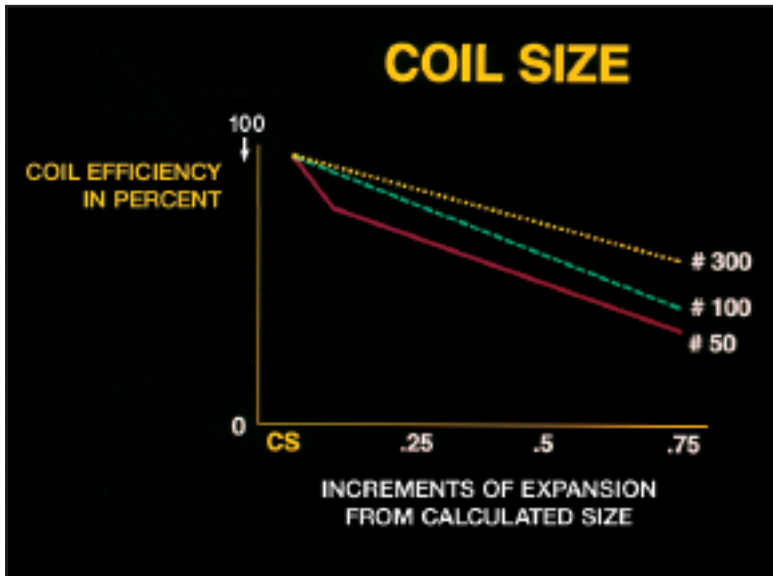


HOTLINE



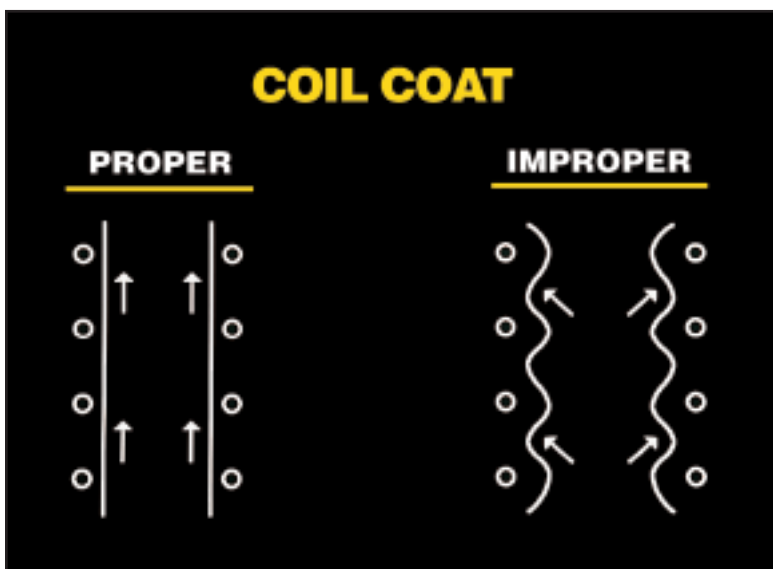
EMSCO Resizing of Coils



Expanding Coil Diameters can lead to inefficiencies of Your Melt System

How many times have you complained about increased melt times with your induction system and blamed the power supply for your troubles? This is a common misconception with induction melting operations today. Unfortunately, the problem may **not be with the power supply, but with the induction furnace coil!**

Improperly sized or expanded induction coils may be costing your foundry thousands of tons of production every year. In addition to lost production, increased energy, refractory, and labor costs are the results of operating your melting coils without the proper diameters. In some cases, oversized induction coils reduce refractory life by as much as thirty percent!



Coil Grout is a key element

Since proper coil diameter is critical, what are the warning signs that you may be experiencing coil growth and diameter expansion? Improper coil coat or grout is the first sign. Since most refractory will expand, we need to control its expansion and not allow it into areas that will cause damage to your induction furnace. Another sign is a variance between your coil dimensions and the dimensions indicated on your manufacturer's refractory drawings. This requires measuring the coil in different locations. **Increases in the coil diameter from the original size will result in poorer system performance.**

Routine Inspections are needed!

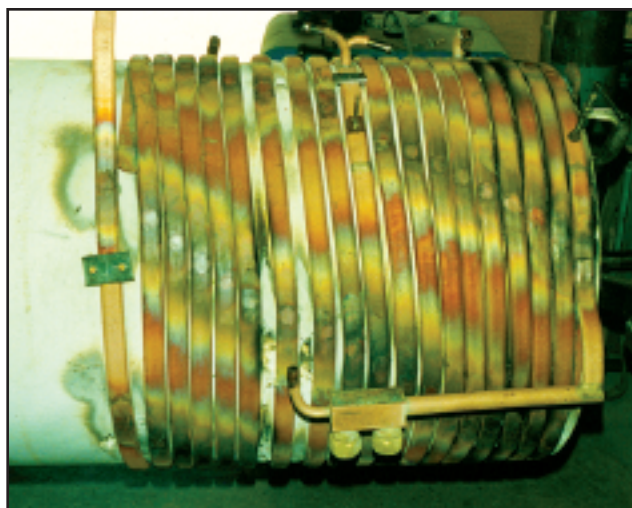
Visual inspection of the coil can be the easiest way to detect the first sign of potential coil expansion. Broken coil supports, poor alignment of coil terminations, broken castable or composite furnace components, and change in refractory quantities are all areas that should be monitored. Any changes should be recorded.

EMSCO can determine the level of expansion of your coil and how it will affect the overall production of your induction melting system. With years of experience and a well established history of coil resizing, **EMSCO** can provide a detailed computer analysis of your coil assembly and offer resize options for your coil. With conveniently located regional service centers, only **EMSCO** can respond, quickly, to your induction repairs and coil analysis.

Induction Coil resizing can be done at any of the EMSCO Service Centers.

Wall thickness analysis, dye penetrant testing, helium mass spectrometer leak analysis, and state-of-the-art engineering services are only a few of the technical services offered by all **EMSCO** facilities in helping you maximize your return on your induction melting system investment.

Contact your local **EMSCO** service facility for an inspection of your induction melting coil.



EMSCO is ready when you need us...every day.

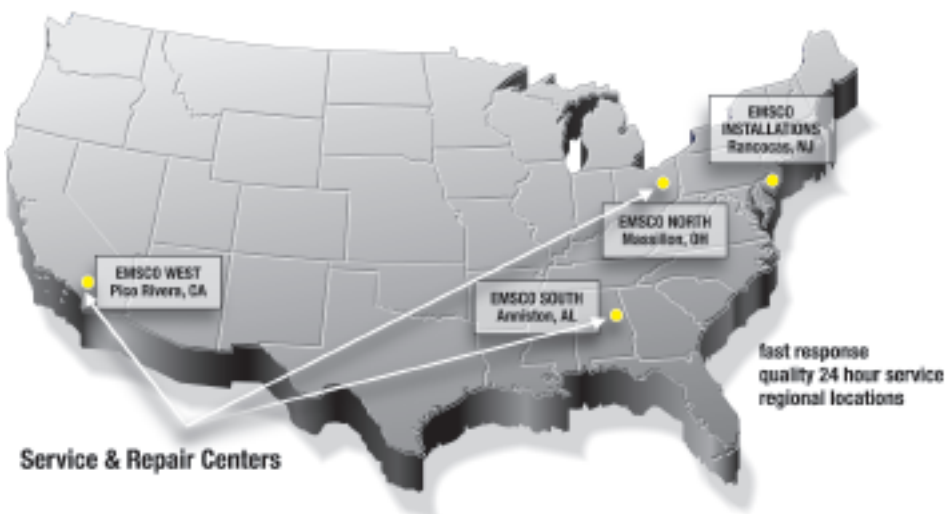
EMSCO's Commitment to you

KNOWLEDGE: EMSCO will begin each project with a customer-focused understanding of the problem to be solved and a soundly engineered approach to the solution.

COST: EMSCO will, when possible, offer more than one level of service and will explain the costs and compromises associated with each. Every option we propose will meet industry standards for safety.

QUALITY: EMSCO will understand and meet the quality expectations agreed to at the start of the project. Warranties will be explained and will set the standard for the industry.

OUR GOAL: EMSCO will provide quality services at reasonable prices so that our customers have the competitive edge in their markets.



NATIONWIDE TOLL-FREE NUMBERS

Repair Centers - 877.77.EMSCO (773.6726) | Installations - 800.858.7030

www.emsco.com