Case Study #8

Offering
Customised
Solutions

The following series of slides document the results of using Redux EF40L fluxes at 15 International Foundries to eliminate slag buildup on refractory walls of coreless induction furnaces, extend refractory life and clean ladles. Additional details on increases in refractory life are presently not available because of the COVID-19 pandemic.



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Case Study 8 - REDUX EF40L Objective: Clean slag build-up from Coreless Induction furnace walls



REDUX EF40L at International Foundry "H" Producing Grey and Ductile Iron Castings

Redux EF40 Test Conditions

- ➤ Inductotherm Induction furnace Coreless melting unit, Crucible No 2
- Furnace capacity 8 Metric Tons.
- Number of heats taken before trial 38
- ➤ Addition rate @0.05%, i.e. 4.5kg/heat
- ▶ 5 heats made with Redux additions
- Addition procedure With charge material

Furnace Condition Before Trial



Trial Results with Redux



Trial Results with Redux



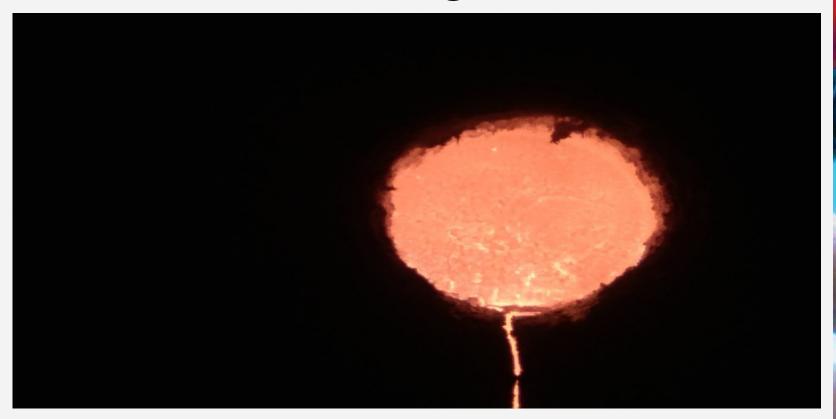
Third Heat after adding Redux





Trial Results with Redux

Fifth Heat after adding Redux EF 40L



Trial Results – Very positive and successful, furnace was totally cleaned of adhering slag build-up without any chipping or scraping