

Case Study #5

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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.

By
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Case Study 5 - REDUX EF40L
Objective: Clean slag build-up from
Pouring ladles



REDUX EF40L at International Foundry “E”
Producing Grey Iron Castings



Condition of the 500 kg Ladle before Redux EF40L additions



The Redux tests were run on just one 500 kg test ladle to determine the effectiveness on flux sidewall cleaning

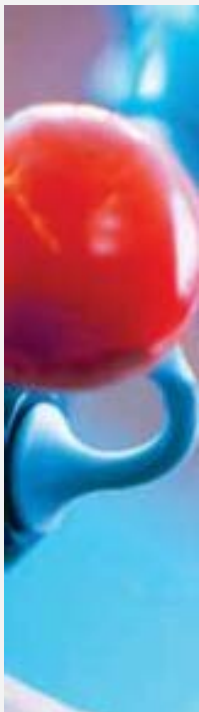


Trial Details

- Redux was added at the rate of 0.05% to 500 kg of molten Gray Iron. After each tap, the metal in the ladle was returned to the furnace. This was done on three consecutive taps to determine the effectiveness of Redux in cleaning built-up slag.



After Redux 2nd Treatment



After Redux 3rd treatment



- The Redux EF40L treated ladle was thoroughly cleaned after the 3rd treatment and in excellent condition