

Case Study #10

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Solutions



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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 10 - REDUX EF40L
Objective: Clean slag build-up from
Coreless Induction furnace walls



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



Redux EF40 Test Conditions

- **Metal Grade – FG 260 Gray iron**
- **Metal Temp. - 1450°C (2642°F)**
- **Power – 700 KW and 2200 volts AC**
- **Furnace Capacity – 1 Metric Ton**
- **Redux 40 Addition Rate - 0.05% of Metallic charge**



Trial Results



Furnace Condition Before



After Use of Redux

- **Trial was a huge success**
- **Slag adhering to the furnace lining was eliminated**
- **Furnace walls were clean after just a few Redux treatments**