

Case Study #12

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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 12 - REDUX EF40L
Objective: Clean slag build-up from
Steel Pouring ladles



REDUX EF40L at International Foundry “L”
Producing High Chrome Iron Castings



REDUX EF40L TRIAL at Foundry L”

➤ AGENDA:

To keep Furnaces and Ladles free of slag build-up and extend refractory life. Incorporation of REDUX with the charge to greatly improve melting efficiency and metal quality

➤ TRIAL SUMMARY:

Trial conducted under guidance of the Shift Foreman

Trial conducted in Metal : High Chrome Iron

Tapped Metal @ Temp. : 1500 ~ 1520 deg.°C.

Liquid Metal tapped : 150 kilograms

REDUX EF40L addition : 75 grams (0.05%)

➤ PROCEDURE:

Redux EF40L was added in a pre-heated ladle before tapping liquid metal. After metal was tapped, ladle was kept on-hold for 4 mins (approx) in order for complete action of Redux material. The resulting photographs are shown in the next slide.



SUMMARY OF REDUX EF40L TRIAL AT FOUNDRY "L"



INFERENCE:

- Trial results were excellent. Foundry personal commented that photo's of ladle before and after Redux treatment were **“remarkable”**.

