Case Study #7

Offering Customised Solutions



Forace Polymers[™]

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 Forace Polymers / ASI International Ltd

Case Study 7 - REDUX EF40L Objective: Clean slag build-up from Steel Pouring ladles



REDUX EF40L at International Foundry "G" that produces steel castings



Redux EF40 Test Conditions

➤Tapping Temperature in MS grade is 1635°C (2,975°F)

➢Pouring 1600°C +/- 10°C (2912°F)

≻Redux 40 Trial in 500 kgs Ladle Capacity

Ladle Condition Before Redux Trial



Trial Details

AFTER 1ST APPLICATION

AFTER 2ND APPLICATION



- > Added 0.05% Redux 40 to the ladle and filled ladle
- After approximately 3 to 4 minutes of reaction time, metal was poured back into the furnace or pit mold, and then a 2nd application of Redux EF40 L was made with the same procedure allowing time for cleaning reaction.
- > Foundry G was very satisfied with the ladle cleaning action of Redux