



CASE STUDY:

WAM® AL II Energy Consumption Comparison

EQUIPMENT

- Two low-pressure die casting furnaces

PRODUCT

- WAM® AL II versus a standard 70% alumina low cement castable product

APPLICATION

- WAM® AL II was installed in one low-pressure furnace and a 70% alumina, low cement castable was installed in the other furnace
- Both furnaces had the same backup lining installed
- The customer hired a third-party contractor to measure the energy consumption of both die casting furnaces

INSTALLATION

- The furnaces were relined and pre heated to 400°C (750°F) offsite
- The customer followed the full recommended WAM® AL II heat-up schedule after completing a pre-heat

RESULTS

- After six months of operation the furnace with the WAM® AL II lining was currently consuming 35% less energy
- The shell temperature was 20°C (70°F) lower on the WAM® AL II lined furnace, confirming less energy loss
- The WAM® AL II furnace is easier to clean
- Energy savings was also realized even with a capacity increase
- Since the installation, the customer has relined a total of five furnaces with WAM® AL II



WAM® AL II after 6 months of operation

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