

CASE STUDY:

WAM[®] AL II Energy Consumption Comparison EQUIPMENT

Two low-pressure diecasting furnaces

PRODUCT

• WAM[®] AL II

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 refractory installed
- A third-party contractor was hired to measure 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 WAM[®] AL II heat-up schedule even after completing a pre-heat.

RESULTS

- The customer has reported the WAM[®] AL II consumed 30% less energy.
- The shell temperature remains 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 realized even with a capacity increase.
- The furnace is still in operation after 28 months with no maintenance.
- The customer has since relined a total of 19 furnaces with WAM[®] AL II.





WAM[®] AL II after 6 months of operation



WAM[®] AL II after 28 months of operation



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Allied Mineral Products, LLC supplies an entire line of monolithic refractories for the metals industry. For more information or a complete evaluation of your refractory requirements, please contact your local Allied representative.

Global **Refractory** Solutions