



CASE STUDY:

DRI-VIBE® LGS IRON CORELESS FURNACE

EQUIPMENT

Large iron automotive foundry melting grey and ductile base iron. Tap temperature of 1650°C (3000°F).

PRODUCT

DRI-VIBE® LGS used for ease of installation and increased resistance to elephant foot erosion. Greater lining life compared to competitive silica material.

APPLICATION

- Three 7MT coreless furnaces
- Daily thermal cycling
- Average of 100 melts with competitive European silica

INSTALLATION

- Pneumatic Air Vibrator
- Liquid sintering using a consumable form

RESULTS

- Number of heats increased from 100 heats to 125 – a 25% improvement.
- After 125 heats, furnace lining still 9 cm thick in the lower sidewall.
- In the months following, customer converted all three furnaces to use DRI-VIBE® LGS.



Slag and metal infiltration of conventional silica-based dry-vibratable



Slag and metal infiltration of LGS silica

Updated – 2/27/18

Allied Mineral Products, Inc. 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.