

# Examining The Effect Of Hydrogen On Refractories

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The UK's Materials Processing Institute has announced a research partnership with Trent Refractories and Kanthal to examine the potential impact on refractories of using hydrogen.

The three-year research agreement will focus on the heat-resistant materials that form the linings of high-temperature furnaces, crucibles, ladles and kilns - primarily used in the iron and steel industry.

It will also test a range of electrical elements, for use in high-temperature applications, to discover any advances that need to be made to ensure full operating demands are fulfilled under an aggressive hydrogen atmosphere.

The research will examine the effect of hydrogen on heat-resistant materials that line furnaces, crucibles, kilns and ladles