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Low Carbon Footprint EAF Refractories to support Scope 3 emissions reduction and the overall European green steel transformation

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The steel industry, as one of the main contributors to the CO2 emissions worldwide, is called to make efforts to reduce its carbon footprint. The green steel transformation is focussing on Scope 1, mainly by substitution of the Blast furnace, and Scope 2, by usage of only electricity coming from green sources or by substitution of Natural gas by green hydrogen. In regard of Scope 3, steelmakers have shown an increased interest in the last year as a mean to further optimize their carbon footprint.
RHI Magnesita, as a global supplier of refractory materials and solutions, is fully committed to support this transition by focusing on refractory circular economy (i.e eliminating refractory landfill) and reinforcing its Research & Development activities to increase circular raw material (CRM) in all its products.
This article aims to present best practice examples on low Carbon Footprint engineered refractory concepts for the EAF lining wall & hearth, also considering the refractory maintenance. RHI Magnesita's offering already meets the challenge of increasing CRM usage while maintaining the required performance.

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