



European Refractories Producers Federation

Press release
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European refractories industry publishes carbon footprint for refractory products

PRE, the European Refractories Producers Federation, is pleased to present the results of its first product carbon footprint exercise. The outcome is based on data collected from 40 individual sites, representing over 40% of the total annual turnover represented by the PRE membership.

This exercise is a gate-to-gate exercise, focusing on the different refractory product production stages. The product carbon footprint was calculated for five product groups. The results are summarised below:

Total non-basic fired shaped:	0,606 tonne CO₂e / tonne of product
Total basic fired shaped:	0,478 tonne CO₂e / tonne of product
Pre-cast:	0,272 tonne CO₂e / tonne of product
Basic unfired shaped:	0,133 tonne CO₂e / tonne of product
Unshaped:	0,017 tonne CO₂e / tonne of product

The results documented in this report show that the product carbon footprint shows a direct correlation with the energy intensity, which in turn is mainly depended on the kiln load. At the same time, the exercise also demonstrated the significant impact of environmental requirements, such as mandatory post process combustion of waste gas, which could increase the energy intensity by up to 30%.

This important exercise increases the general knowledge on the European refractories industry and helps the industry to analyse their individual environmental positions. It will also support PRE members in their communication with refractory using industries and help these industries in turn to calculate a more accurate carbon footprint for their products. In this respect, it is important to notice that the specific resource consumption of European refractory products is very low, with only 10 kg of refractories required per tonne of steel.

Further information, including full details on the methodology can be found in the PRE Carbon Footprint report, published on the PRE website: www.pre.eu.

PRE appreciates the support of the Carbon Trust consultancy to ensure a high quality of the exercise.

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