

CLIMATE DECLARATION

FOR MAGNESIA CARBON BRICKS

Functional unit: 1 tonne

The climate declaration shows the emissions of greenhouse gases, expressed as CO₂-equivalents. It is based on verified results from a lifecycle assessment (LCA) performed as basis for an EPD®, in accordance with EN 15804.

Information about the product



The magnesita carbon brick is used as lining brick in the furnace in the lead, nickel, copper, gold, ferrochrome, ferrochrome, etc sectors. The raw materials are fed to the silos and the binders that are purchase from outside, baked magnesita carbon brick blend is prepared by mixing in mixers according to the recipe. Then, the brick is made ready by subjecting it to the baking process in tunnel kilns.

Information about the company

KÜMAŞ Magnesite Inc. is located at the address of Kütahya Province, Eskişehir Road 9. Km 43001 and operates in a total area of 695.270 m² and 68.561 m² closed area. KÜMAŞ Magnesite Inc. produces "Sintered Magnesite, Calcined Magnesite, Fused Magnesite, Kures Powder, Refractory Brick and Mortar".

Climate declaration

The table below lists the emissions of greenhouse gases for the product in kg CO₂ eq. per 1 tonne of product.

GWP	A1-A3	A4	A5	C1
Fossil	2.65E+03	4.46E+01	2.74E+01	0.00E+00
Biogenic	-3.29E+01	0.00E+00	3.29E+01	0.00E+00
Luluc	7.85E+00	2.95E-02	2.60E-02	0.00E+00
Total	2.63E+03	4.46E+01	6.04E+01	0.00E+00
GWP	C2	C3	C4	D
Fossil	5.01E+01	4.45E-03	7.75E+01	-1.30E+03
Biogenic	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Luluc	2.44E-02	5.81E-06	3.12E-02	-3.12E+00
Total	5.01E+01	4.46E-03	7.75E+01	-1.30E+03

Other environmental impacts

This declaration is limited to the impact on climate change by emissions of greenhouse gases. Further information about other relevant environmental aspects is available in the EPD at www.epdturkey.org and www.environdec.com.

Contact information

Kümaş Magnesite Inc.

Eskişehir Karayolu 9 Km.

Kütahya, Turkey

srd.isg@kumasref.com

<https://www.kumasref.com>



EPD PROGRAMME: THE INTERNATIONAL EPD® SYSTEM		REGISTRATION NO: S-P-0016639	VALIDITY: 2030-01-09
PCR: 2019:14 CONSTRUCTION PRODUCT 1.3.4	UN CPC: 153	PCR REVIEW CONDUCTED BY: THE TECHNICAL COMMITTEE OF THE INTERNATIONAL EPD SYSTEM	
INDEPENDENT VERIFICATION OF THE DECLARATION AND DATA, ACCORDING TO ISO 14025: HUDAI KARA PHD, INDIVIDUAL VERIFIER		ACCREDITED / APPROVED BY: THE INTERNATIONAL EPD® SYSTEM	
CLIMATE DECLARATIONS FROM DIFFERENT PROGRAMS MAY NOT BE COMPARABLE			
THIS SINGLE-ISSUE EPD ONLY ADDRESSES ONE ENVIRONMENTAL IMPACT CATEGORY AND DOES NOT ASSESS OTHER POTENTIAL IMPACTS ARISING FROM THE PROVISION OF THIS PRODUCT. THESE ASPECTS MAY BE OF EQUAL OR GREATER IMPORTANCE THAN THE SINGLE IMPACT CATEGORY DISPLAYED.			