



Opinion Statement

Product Carbon Footprint Verification Opinion Statement

This is to verify that: CHC RESOURCES CORPORATION
22F., No. 88, Chenggong 2nd Rd.
Qian-Zhen Dist., Kaohsiung City
806618, Taiwan

中聯資源股份有限公司
臺灣高雄市前鎮區
成功二路 88 號 22 樓
806618

Holds Statement No: PCFV 768535

As a result of carrying out the verification of product life cycle greenhouse gas emissions, it is the opinion of BSI with reasonable assurance that:

- The product carbon footprint with the declared unit of one tonne series recycling mineral material is verified as following table.
- No material misstatements in this product life cycle greenhouse gas emission statement were revealed.

The product life cycle GHG data quality was verified to be acceptable against the requirements of ISO 14067:2018.

This statement shall be valid for a maximum period of two years after the latest issue date on this certificate. Should there be a change in the life cycle of the product whose GHG emissions are being assessed, the validity of this opinion statement will cease.

For and on behalf of BSI:

Managing Director BSI Taiwan, Peter Pu

Originally Registration Date: 2022-10-10

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Taiwan Headquarters: 2nd Floor, No. 37, Ji-Hu Rd., Nei-Hu Dist., Taipei 114, Taiwan, R.O.C.
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Declared Unit of Product 產品宣告單位	Plant involved in inventory 盤查廠區	Emissions (Kg CO ₂ e) 排放量
One tonne Ground-Granulated Blast-Furnace slag in bulk (excluding transshipment) 每公噸散裝混凝土及水泥砂漿用水淬高爐爐渣粉(不含轉運)	高雄廠/臨海廠/台中廠	58.89
One tonne Ground-Granulated Blast-Furnace slag in bulk (including transshipment) 每公噸散裝混凝土及水泥砂漿用水淬高爐爐渣粉(含轉運)	高雄廠/臨海廠/台中廠/彰化廠/苗栗廠/台北站	61.34
One tonne Ground-Granulated Blast-Furnace slag with bulk bag packaging 每公噸太空袋裝混凝土及水泥砂漿用水淬高爐爐渣粉	高雄廠/台中廠	59.32
One tonne Fly-ash Ground-Granulated Blast-Furnace slag in bulk 每公噸散裝飛灰爐石粉	高雄廠/台中廠	46.80
One tonne Portland Blast-Furnace Slag Cement in bulk 每公噸散裝卜特蘭高爐爐渣水泥	高雄廠/臨海廠/台中廠	603.72
One tonne Portland Blast-Furnace Slag Cement with bulk bag packaging 每公噸太空袋裝卜特蘭高爐爐渣水泥	高雄廠/台中廠	572.56
50 kg Blended Hydraulic Cement with paper bag packaging 50 公斤紙袋裝新型高爐水泥	高雄廠/台中廠	25.61
One tonne Soil Improvement Agents in bulk 每公噸散裝地質改良處理劑	高雄廠/台中廠	358.71
One tonne Soil Improvement Agents with bulk bag packaging 每公噸太空袋裝地質改良處理劑	高雄廠/台中廠	363.07
50 kg Soil Improvement Agents with paper bag packaging 50 公斤紙袋裝地質改良處理劑	高雄廠	18.21

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Location	Verification Information
CHC RESOURCES CORPORATION 22F., No. 88, Chenggong 2nd Rd. Qian-Zhen Dist., Kaohsiung City 806618, Taiwan 中聯資源股份有限公司 臺灣高雄市前鎮區 成功二路 88 號 22 樓 806618	The product carbon footprint with the declared unit of one tonne series recycling mineral material is verified as following table.

Declared Unit of Product 產品宣告單位	Plant involved in inventory 盤查廠區	Emissions (Kg CO ₂ e) 排放量
One tonne Air-cooled Basic Oxygen Furnace Slag Graded Aggregate in bulk 每公噸散裝氣冷轉爐石級配料	中港廠/南堤廠/沿海廠/利昌廠	5.77
One tonne Air-cooled Blast Furnace Slag Graded Aggregate in bulk 每公噸散裝氣冷高爐石級配料	南堤廠/沿海廠	4.98
One tonne BOF Slag Aggregate for Asphalt Concrete in bulk 每公噸散裝瀝青鋪面用料	中港廠/南堤廠/利昌廠	9.56
One tonne BOF Slag Fine Aggregate in bulk 每公噸散裝轉爐石細料	利昌廠/利昌二廠	14.78
One tonne Iron Slag in bulk 每公噸散裝鐵渣(煤灰礦泥拌合料)	光陽廠	4.61
One tonne Mineral Fine Aggregate in bulk 每公噸散裝礦物細料(石灰質細料)	中能沿海廠/中能大發廠/中能中林廠	32.42
Per 1.4 tonne Aluminum Cone with bulk bag packaging 每 1.4 公噸太空袋裝鋁錐	大發廠	724.14
One tonne Aluminum Ingot in bulk 每公噸散裝鋁錠	大發廠	188.54
One tonne Artificial Fluorite with bulk bag packaging 每公噸太空袋裝人造螢石	永春廠	584.29

Additional information

Product related information is as follows:

- System boundary for this product: Cradle to Gate
The product system boundary is consistent with its system boundary definition in the PCF report for product carbon footprint, which involves the acquisition of materials, process activity and the transportation of materials in the product life cycle.
- The data in this product life cycle greenhouse gas inventory report is from 2021-01-01 to 2021-12-31.
- The site-specific data include related facilities from its own processes under the operational control of the organization and individual processes under the financial or operational control of the organization undertaking the CFP study.
- The secondary data include relative factors from EPA Carbon Footprint Calculation Platform and LCA database ecoinvent 3.8.

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