

PRODUCT CARBON FOOTPRINT ANALYSIS

Nico understand that all the activities of an organisation have an impact on the environment, and we continually strive to meet and exceed our social and environmental responsibilities.

In order to maintain improvements we developed a method of benchmarking “product carbon footprints” within the hardware industry. A detailed “product carbon footprint” analysis was carried out and products manufactured in the UK by Nico were compared with identical products produced in the Far East and shipped to the UK.

Summary of Analysis.

A comparison of the estimates of the carbon dioxide CO₂ and carbon dioxide equivalent *(CO₂e), all the way from the extraction of the raw material to the delivery of the finished product to the commercial customer, are summarised in Tables 1 and 2.

The tables show that the carbon footprints of the Nico products manufactured in the UK are around 60% of those for nominally identical products manufactured in China and shipped to the UK. Furthermore the dominant components of the footprints are associated with emissions embodied in the materials and the energy used in the factory.

In products shipped from China the emissions associated with shipping Butt Hinge 4515 are about 8% of the total product footprint, and for Friction Stay 7740 they're about 4% of the total product footprint.

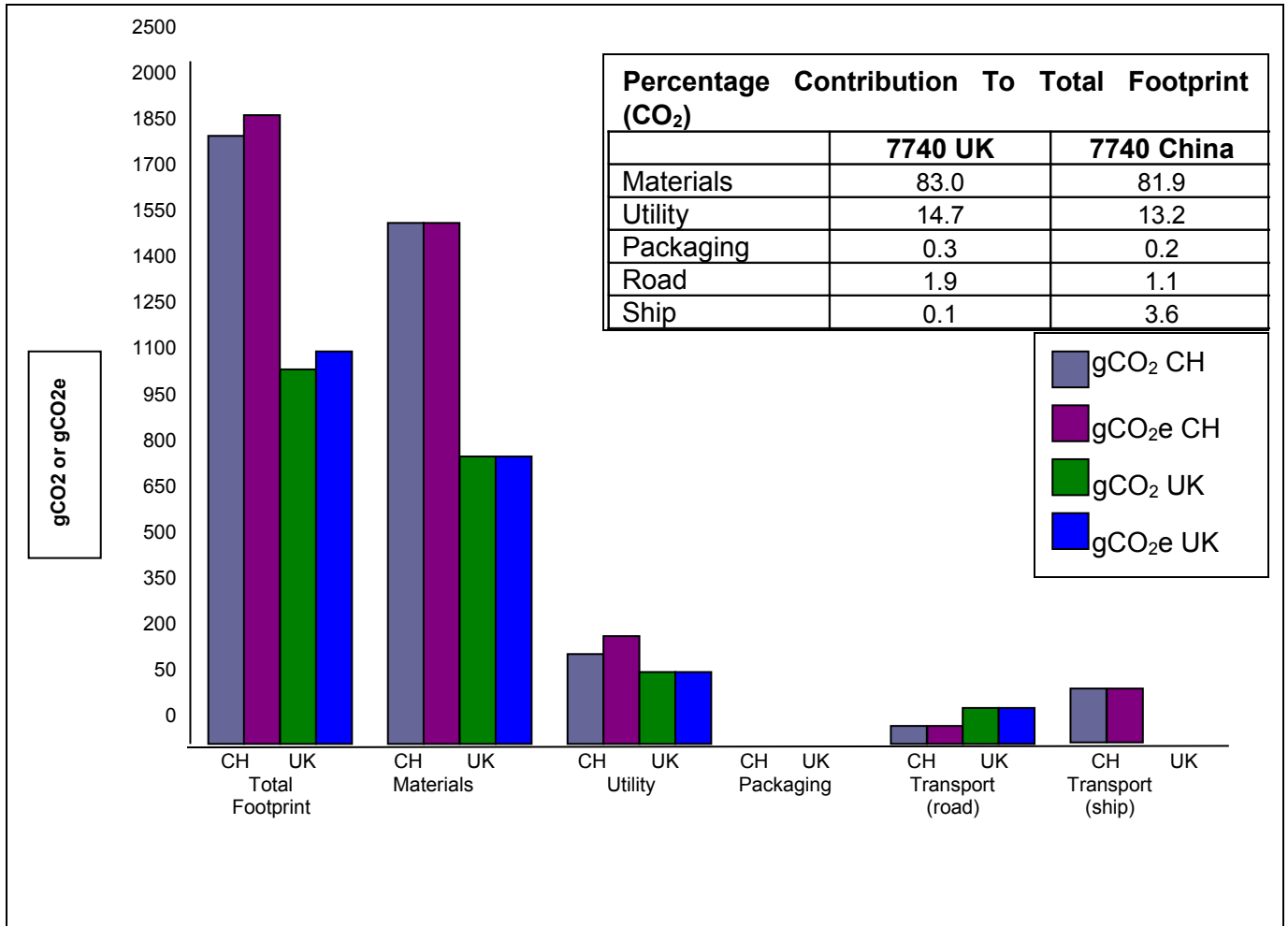
NOTE

*CO₂e = the concentration of CO₂ that would cause the same level of radiative forcing as a given type and concentration of greenhouse gas. (methane, perfluorocarbons and nitrous oxide)

PRODUCT 1 – FRICTION HINGE 7740

Product	Product manufactured in UK	Product manufactured in China and shipped to UK
Friction Hinge 7740	1139 gCO ₂ (1149 gCO ₂ e)	1852 – 2037 gCO ₂ (1889 – 2074 gCO ₂ e)

TABLE 1 – FRICTION HINGE 7740



PRODUCT 2 – BUTT HINGE 4515

Product	Product Manufactured in UK	Product manufactured in China and shipped to UK
Butt Hinge 4515	374 gCO ₂ (385 gCO _{2e})	624 – 671 gCO ₂ (660 – 708 gCO _{2e})

TABLE 2 – BUTT HINGE 4515

