JRC Dataset

Steel hot dip galvanized, including recycling; blast furnace route; production mix, at plant; 1kg, typical thickness between 0.3 - 3 mm. typical width between 600 - 2100 mm. (Location: GLO)

Description:
High data quality. Data collected on site by steel industry experts in accordance with the worldsteel methodology and ISO 14040 standards, and consistency-checked by worldsteel LCA-experts. Global coke, sinter, pellet, hot metal, slab production based on worldsteel site specific data. Metallurgical coal data based on global IEA statistics and information from the GaBi database. Iron ore data obtained from iron ore producer. Other upstream data based on the GaBi database, including country specific electricity. The LCI does not include any further processing beyond the steelworks gate such as bending, shaping, cutting, welding etc. The LCI includes credits and burdens associated with end of life recycling, applying a burden to the scrap input and a credit for recycling of the product at end of its life. Therefore, end of life recycling does not need to be modelled separately. Burdens associated with shredding and baling at end of life are not included. Synonyms: Steel hot-dip galvanized (HDG) Technical Purpose: Obtained by passing cold rolled coil through a molten zinc bath, in order to coat the steel with a thin layer of zinc to provide corrosion resistance. It can be found on the market in coil or in sheets and is further processed into finished products by the manufacturers. Hot Dip Galvanized Steel features excellent forming properties, paintability, weldability, and is suitable for fabrication by forming, pressing and bending. Applications include domestic applications, building applications (e.g. wall elements, roofing applications), automotive applications (e.g. body in white for vehicles underbody auto parts), lighting fixtures, drums and various kinds of sections applications, profiled sheets, etc. Geographical Representation: GLO

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How to cite:
Fazio, Simone; Pennington, David(2007): Steel hot dip galvanized, including recycling; blast furnace route; production mix, at plant; 1kg, typical thickness between 0.3 - 3 mm. typical width between 600 - 2100 mm. (Location: GLO). European Commission, Joint Research Centre (JRC) [Dataset] PID: http://data.europa.eu/89h/jrc-eplca-7dcb51ef-2d85-481c-b943-3b148d9f6500

Keywords:
Materials production, Metals and semimetals

Related resources:
Data access
Full ELCD Database
Landing Page to download the full ELCD Database.

Additional information:
Issue date: 2007-01-01
Geographic area: America, Antarctica, Oceania, Europe, Asia, Africa
Update frequency: None
Language: English
Data theme(s): Environment; Science and technology
EuroVoc domain(s): 36 SCIENCE; 52 ENVIRONMENT