

ISO 20915:2018 (E)

Life cycle inventory calculation methodology for steel products

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Basic conditions for LCI of steel products
4.1	General requirements
4.2	Function and functional unit
4.3	System boundary
4.4	Data quality
4.4.1	General
4.4.2	Time-related coverage
4.4.3	Geographical coverage
4.4.4	Technology coverage
4.4.5	Sources of the data
4.4.6	Cut-off criteria
5	Methodological procedure for LCI calculation of steel products with provision for scrap recycling
5.1	General
5.2	Calculation of cradle to gate LCI without allocation for scrap input
5.3	Allocation for scrap recycling
5.3.1	General
5.3.2	LCI calculation methodology for scrap
5.3.3	Calculation of the burden for scrap input to produce the specific steel product under study
5.3.4	Calculation of the credits for scrap recovery
5.4	Collecting data
5.4.1	General
5.4.2	Co-products
5.4.3	Ferrous raw materials
5.4.4	Process coal
5.4.5	Non-ferrous raw materials
5.4.6	Ferro alloy
5.4.7	Other input materials
5.4.8	Fuels
5.4.9	Process gases
5.4.10	Electricity
5.4.11	Steam
5.4.12	Sea water
5.4.13	Fresh water
5.4.14	Industrial gases
5.4.15	Emissions to air, water and soil
5.4.16	Flares
5.4.17	Transportation
5.5	Allocation procedure for co-products
5.5.1	General requirement
5.5.2	System expansion
6	Reporting

7	Critical review
Annex A	(informative) An example for calculating Xpr
Annex B	(informative) Example of LCI result reporting
Annex C	(informative) Example uses of co-products outside of the system boundary
Annex D	(informative) Comparison among standards
Annex E	(informative) Details for calculating the recycling rate
Annex F	(informative) LCI calculations for electricity and steam
F.1	Electricity
F.2	Steam

Page count: 29