

Climate Declaration

Company Nordic Brass Gusum AB
Product AquaNordic® ingot and rod

This Climate declaration shows the emissions of greenhouse gases, expressed as kilogram CO₂-equivalents per kg of brass. It is based on results from a cradle-to-gate life cycle assessment with data from production in 2014.

The company

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Nordic Brass Gusum manufactures semi-finished products at one of Europe's most advanced brass production plants in Gusum in Sweden.

Customers include companies in the heating, ventilation and sanitary industry, the engineering and automotive industries, the building industry, and electrical and telecom industries.

The product

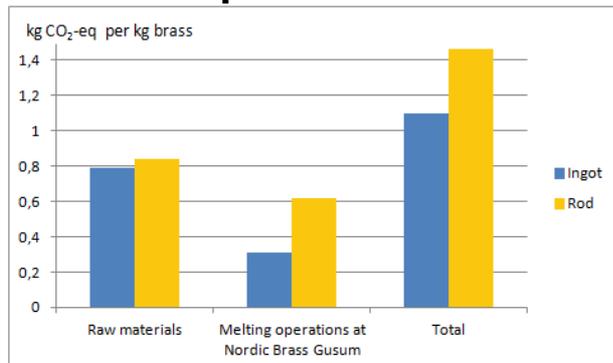
Nordic Brass Gusum manufactures semi-finished products such as round, square and hexagonal rods, profiles, nuts and ingots in brass.

This climate declaration describes the emissions of greenhouse gases, expressed as CO₂-equivalents, per kilogram of AquaNordic® brass ingot and brass rod.

AquaNordic® is recommended for use in water appliances since it does not contain more than trace contaminants of lead while maintaining casting and machining properties.

Substance	AquaNordic® ingot	AquaNordic® rod
Copper	63.0-65.0%	62.5-63.5%
Zinc	Remaining	Remaining
Lead	<0.1%	<0,1%
Aluminum	0.5-0.7%	
Arsenic	0.02-0.04%	0.02-0.04%
Antimony	0.02-0.05%	
Boron	4-7 ppm	
Tin	<0.3%	<0,1%
Iron	<0.2%	<0,1%
Nickel	<0.2%	
Manganese	<0,1%	
Silicon	<0.2%	

Climate impact



The diagram shows the cradle-to-gate climate impact of one kilogram of AquaNordic® ingot and rod respectively. All climate impacts from production and transport of raw materials as well as the melting operations in Gusum are included. No use phase is included.

The relatively small climate impact of the brass products compared to other metal products is due to that most raw materials (about 70%) are from secondary sources (recycled), the low melting point of brass and the low carbon electricity available in Sweden.

Other environmental information

AquaNordic® is approved for usage in drinking water applications by environmental assessment systems such as Basta, Byggvarubedömningen and Sunda Hus and hygienic systems in Europe 4MS composition list, and fulfils US regulations.

More information on the cradle-to-gate life cycle assessment of lead-free brass is available from Nordic Brass Gusum on demand.

Products made of AquaNordic® can be recycled by any brass producer, even if coated and/or joined with plastics and/or other metals. Manufacturing cuttings need not be handled separately to retain full recyclability.

This Climate declaration has been prepared in cooperation between Nordic Brass Gusum AB and Swerea IVF AB. It conforms to ISO 14021:1999 Environmental labels and declarations – Self-declared environmental claims.