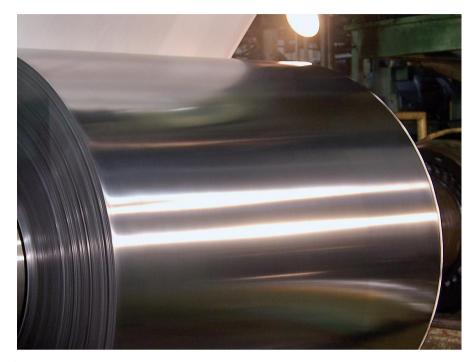
Japan EPD Program by SuMPO

Sustainable Management Promotion Organization 14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan https://ecoleaf-label.jp/



Registration number: JR-BO-24009E-A

Stainless Steel Sheet (SUS430)



Functional unit

1 t

System boundary

☐ final products ■ intermediate products

Production Stage

(Raw material supply, Transport, Manufacturing)

Main specifications of the product

Production sites:

Yamaguchi Works, East Nippon Works

Main standards:

JIS(Japanese Industrial Standards)

See Table 8.Remarks for details

Type: Sheet, Strip

Main sizes(unit:mm, t:thickness, φ:diameter):

 $t=0.1\sim9.0$

Company Information

NIPPON STEEL CORPORATION

Stainless Steel Unit Stainless Steel Technology Div.

https://www.nipponsteel.com/

Registration#	JR-BO-24009E-A		
PCR number	PA-187000-BO-03		
PCR name	Stainless steel products		
Publication date	March 19, 2025		
Verification date	March 10, 2025		
Verification method	Product-by-product		
Verification#	JV-BO-24009		
Expiration date	March 9, 2030		
PCR review was conducted by:			
Approval date	February 4, 2023		
PCR review panel chair	Ken Yamagishi		
parier enail	Sustainable Management Promotion Organization		
Third party verifier*			

Kengo Minamiyama

Independent verification of data & declaration in accordance with ISO14025 and ISO21930

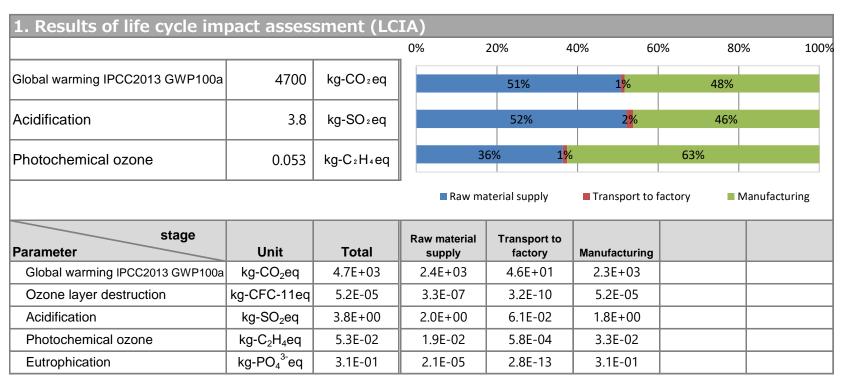
> □internal ■ external

Registration number: JR-BO-24009E-A

^{*}Auditor's name is stated if system certification has been performed.

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Registration number: JR-BO-24009E-A



2. Life cycle inventory analysis (LCI)		
Parameter		Unit
Non-renewable material resources	7.5E+02	kg
Non-renewable energy	5.9E+04	MJ
Renewable material resources	1.4E+03	kg
Renewable primary energy	1.3E+03	MJ
Consumption of freshwater	1.5E+01	m ³

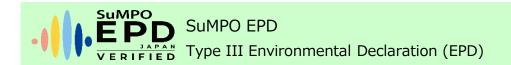
4. Waste to disposal		
Parameter		Unit
Hazardous waste	0.0E+00	kg
Non-hazardous waste	4.0E+00	kg

NON-Na	izaruous waste	4.00+00	
*Data derived from LCA and not assigned to the impact categories of LCIA			

3. Material composition		
Material		Unit
С	≦0.12	%
Si	≦ 0.75	%
Mn	≦ 1.00	%
Р	≦ 0.040	%
S	≦ 0.030	%
Ni	≦ 0.60	%
Cr	≦ 18.00	%
Fe	≧79	%

5. Additional explanation

- 1. Scenarios of transport to site follow the PCR. For the inter-factory transportation for intermediate products, distances were measured using mapping software.
- 2. Each item (except iron) in table 3 is the maximum value of all product standards covered by this EPD. The iron content is adjusted by the contents of other components.
- 3. Primary data collected in 2022. The source of the unit power consumption is the average of 10 electric power suppliers of Japan in 2014.
- 4. Stainless steel slab for this product is made by Kyushu Works.



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6-1. Supplementary environmental information

Each production area has ISO 14001 certificate.

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6-2. Regulated hazardous substances		
Substance	CAS No.	Reference to standards or regulations
Manganese [Mn]	7439-96-5	Industrial Safety and Health Act
Chromium[Cr]	7440-47-3	Industrial Safety and Health Act
Nickel[Ni]	7440-02-0	Industrial Safety and Health Act

7. Assumptions of secondary data used

The IDEA2.1.3 data is used.

8. Remarks

OJIS(Japanese Industrial Standards): JIS G 4304(Hot-rolled stainless steel plate, sheet and strip), JIS G 4305(Cold-rolled stainless steel plate, sheet and strip)

• April

2025; Modification based on the change of company name

- For data quantification, please refer to PCR and Rules on quantification and declaration.
- Comparative assertion is permitted only when Rules on quantification and declaration are satisfied. (Reference URL : https://ecoleaf-label.jp/regulation/)

Registration number: JR-BO-24009E-A