



CTB1245C-00

2025 05 27

	6999											
				13455657893								
	6999											
	6999											
	ISO											
	14067:2018											
	PAS 2050:2011											
	CTB1245C-00											
	2024	1	1	-2024	12	31						
“CCSC” “ ” 2024 1 1 -2024 12 31 CTB1245C-00 1 ISO14067:2018 PAS 2050:2011 2 <table><tr><td></td><td></td><td>tCO₂e/</td></tr><tr><td>CTB1245C-00</td><td>1</td><td>27.80</td></tr></table>									tCO ₂ e/	CTB1245C-00	1	27.80
		tCO ₂ e/										
CTB1245C-00	1	27.80										
					2025/05/20							
						2025/05/27						

	.....	I
1.	.....	1
1.1.	.....	1
1.2.	.....	1
1.3.	.....	1
1.4.	.....	1
1.5.	.....	1
1.6.	.....	2
2.	.....	2
2.1.	.....	2
2.2.	.....	3
2.3.	.....	4
2.4.	.....	4
2.5.	.....	5
3.	.....	5
3.1.	.....	5
3.2.	.....	6
3.3.		7
3.4.		8
4.		9
4.1.		9
4.2.		10
5.		14
5.1.		14
5.2.		14
6.		16
7.		18
		19

1.

1.1.

2024 1 1 -2024 12 31

CTB1245C-00

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ISO 14067:2018

PAS 2050:2011

CTB1245C-00

1.2.

1 CTB1245C-00

“ ”

1.3.

1) ISO 14067:2018

2) PAS 2050:2011

1.5.

1

2

3

4

1.6.

	CPCD	Ecoinvent3.1	2006	IPCC	IPCC
2006		2019			

2.

2.1.

2.1.1.

1)

2) /

3) GHG

4)

5) GHG

6)

7)

2.2.1.

2-1

	/

2.2.2.

2-2

2025.5.11	
2025.5.19	
2025.5.20	

2.3.

“ ”

2.4.

2025 5 19

2-3

2-3

		/	
1	GHG	/	
		/	
	1)	/	
	2)	/	
	3)	/	
	4)	/	
2	5)	/	
	6) GHG	/	
	GHG	/	



	1)	GHG		
	2)			
	3)			
	4)			
	5)			
	6)			
	7)			
	GHG			
	1) GHG			
	2) GHG			
	3) GHG			
3	1)			
	2)			

2.5.

3.

3.1.

		1993	831387
27	1.1	8	800
EPC+O&M			30
“ ”“ ”“ ”			
6	2.5		



	EPC	2022	
5	2		2023
6			
		1.5T	
			18

3.2.

- 1
- 2
- 3
- 4
- 5

6

7

8

9

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3-1

CTB1245C-

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CTB1245C-00

3.3.

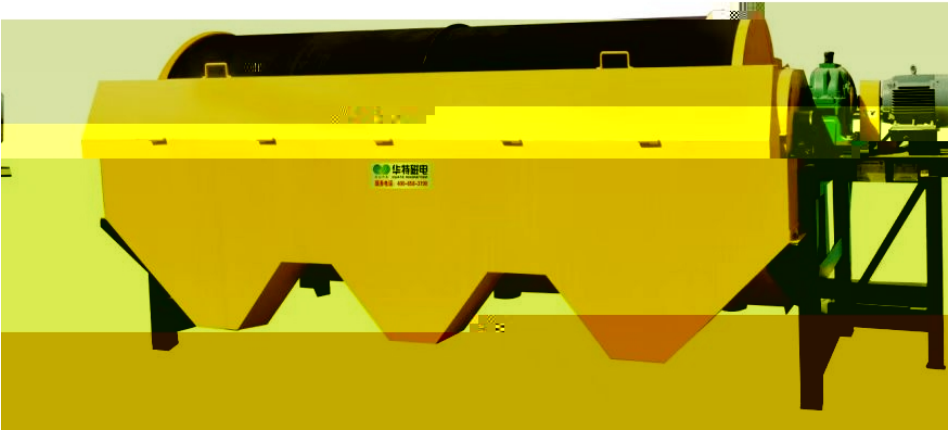
1)

2024 01 01 - 2024 12 31

2)

/

1 CTB1245C-00



3-2

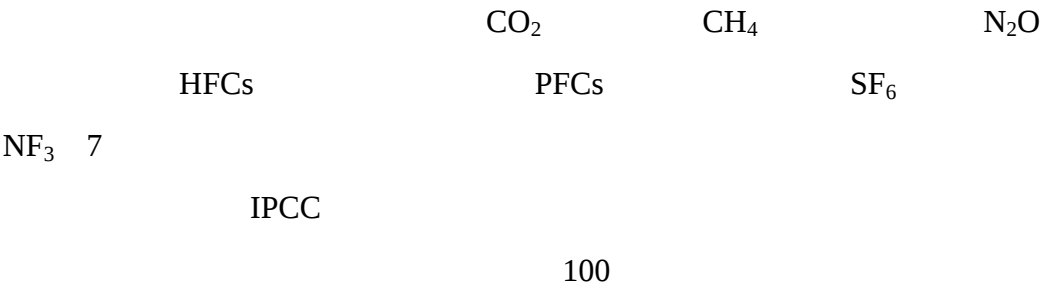
3)

3-2

3-3

4)

Global Warming Potential GWP



CO₂ CO₂e 3-1

3-1 GWP

GWP	kg CO ₂ e	CO ₂	1
		CH ₄	27.9
		N ₂ O	273

e equivalent



1			/	
			/	
			/	
			/	
2			/	
3		/	/	
4		/	/	
5		/	/	

4.

4.1.

2025 5 19
2024 1 1 ~2024 12 31

CPCD

4-1

	BOM	BOM

4.2.

4-2

							/		/
			1	—	—	—	—	—	—
		1	- Q235B	2971.27	kg/	CO ₂	2.63E+00	kgCO ₂ /kg	CPCD
		2	-20#	331.15	kg/	CO ₂	2.63E+00	kgCO ₂ /kg	CPCD
		3	-45#	112.38	kg/	CO ₂	2.43E+00	kgCO ₂ /kg	CPCD
		4	- Q355B	286.97	kg/	CO ₂	2.63E+00	kgCO ₂ /kg	CPCD
		5	-201	1770.83	kg/	CO ₂	6.80E+00	kgCO ₂ /kg	CPCD
		6	-304	1.7	kg/	CO ₂	6.80E+00	kgCO ₂ /kg	CPCD
		7		45.51	kg/	CO ₂	3.08E+00	kgCO ₂ /kg	CPCD
		8	6	0.41	kg/	CO ₂	4.10E+00	kgCO ₂ /kg	CPCD
		9		0.01	kg/	CO ₂	2.32E+00	kgCO ₂ /kg	CPCD
		10		63.5	kg/	CO ₂	2.05E+00	kgCO ₂ /kg	CPCD
		11	-201	37.25	kg/	CO ₂	6.80E+00	kgCO ₂ /kg	CPCD
		12	-304	0.25	kg/	CO ₂	6.80E+00	kgCO ₂ /kg	CPCD
		13	40Cr	174.75	kg/	CO ₂	2.05E+00	kgCO ₂ /kg	CPCD
		14	65Mn	0.44	kg/	CO ₂	2.43E+00	kgCO ₂ /kg	CPCD
		15	BL2	0.0013	kg/	CO ₂	2.15E+00	kgCO ₂ /kg	CPCD

		16	ZG	118.43	kg/	CO ₂	2.04E+00	kgCO ₂ /kg	CPCD
		17	ZL	103.9	kg/	CO ₂	1.64E+01	kgCO ₂ /kg	CPCD
		18		11.6	kg/	CO ₂	9.00E-02	kgCO ₂ /kg	CPCD
		19		1.02	kg/	CO ₂	3.08E+00	kgCO ₂ /kg	CPCD
		20		0.0004	kg/	CO ₂	1.43E+01	kgCO ₂ /kg	CPCD
		21		2.1	kg/	CO ₂	4.10E+00	kgCO ₂ /kg	CPCD
		22	Y30BH	2853.08	kg/	CO ₂	1.20E-01	kgCO ₂ /kg	CPCD
		23		16.36	kg/	CO ₂	1.05E+00	kgCO ₂ /kg	Ecoinvent3.1
		24		43.77	kg/	CO ₂	8.71E-01	kgCO ₂ /kg	Ecoinvent3.1
		25		20.76	kg/	CO ₂	1.21E+00	kgCO ₂ /kg	Ecoinvent3.1
		26		0.07	kg/	CO ₂	4.18E-01	kgCO ₂ /kg	Ecoinvent3.1
		27		4.67	kg/	CO ₂	5.53E-02	kgCO ₂ /kg	CPCD
		28		13.45	kg/	CO ₂	6.51E-01	kgCO ₂ /kg	CPCD
		29	电力	4092.75	kWh/台	CO ₂	6.21E-01	kgCO ₂ /KWh	生态环境部《关于发布2023年电力碳足迹因子数据的公告》电力碳足迹因子
		30		13.45	kg/	CO ₂	3.10E+00	kgCO ₂ /kg	
		31		13.45	kg/	CH ₄	4.70E-03	kgCO ₂ /kg	IPCC
		32		13.45	kg/	N ₂ O	4.60E-02	kgCO ₂ /kg	IPCC



CPCD

Ecoinvent3.1

2023

CPCD



4-3





									2022
9				0.01		5	km	4.20E-05	2022
10				63.5		64	km	5.70E-05	CPCD
11	-201			37.25		449	km	5.70E-05	CPCD
12	-304			0.25		134	km	5.70E-05	CPCD
13	40Cr			174.75		57	km	5.70E-05	CPCD
14	65Mn			0.44		64	km	5.70E-05	CPCD
15	BL2			0.0013		64	km	5.70E-05	CPCD
16	ZG			118.43		46	km	5.70E-05	CPCD
17	ZL			103.9		62	km	5.70E-05	CPCD

	18			11.6		246	km	5.70E-05	CPCD
	19			1.02		5	km	4.20E-05	2022
	20			0.0004		55	km	4.20E-05	2022
	21			2.1		330	km	4.20E-05	2022
	22	Y30BH		2853.08		830	km	5.70E-05	CPCD
	23			16.36		6	km	8.30E-05	2022
	24			43.77		6	km	8.30E-05	2022
	25			20.76		6	km	8.30E-05	

									2022
	26			0.07		6	km	8.30E-05	2022
	27			4.67		50	km	8.30E-05	2022

5.

5.1.

$$\sum \sum$$

$$\begin{aligned} EP_C &= \sum_i EP_i \\ EP_i &= Q_i \cdot EF_i \end{aligned}$$

5.2.

5.2.1.

5-1

		kgCO ₂ e	
1	-Q235B	7814.44	28.11%
2	-20#	870.92	3.13%
3	-45#	273.08	0.98%
4	-Q355B	754.73	2.71%
5	-201	12041.64	43.31%
6	-304	11.56	0.04%
7		140.17	0.50%
8	6	1.68	0.01%
9		0.02	0.00%
10		130.18	0.47%
11	-201	253.30	0.91%
12	-304	1.70	0.01%
13	40Cr	358.24	1.29%
14	65Mn	1.07	0.00%
15	BL2	0.003	0.00%
16	ZG	241.60	0.87%
17	ZL	1701.88	6.12%

		kgCO ₂ e	
18		1.04	0.00%
19		3.14	0.01%
20		0.01	0.00%
21		8.61	0.03%
22	Y30BH	342.14	1.23%
23		17.18	0.06%
24		38.12	0.14%
25		25.12	0.09%
26		0.03	0.00%
27		0.26	0.00%
		25031.87	90.03%

5.2.2.

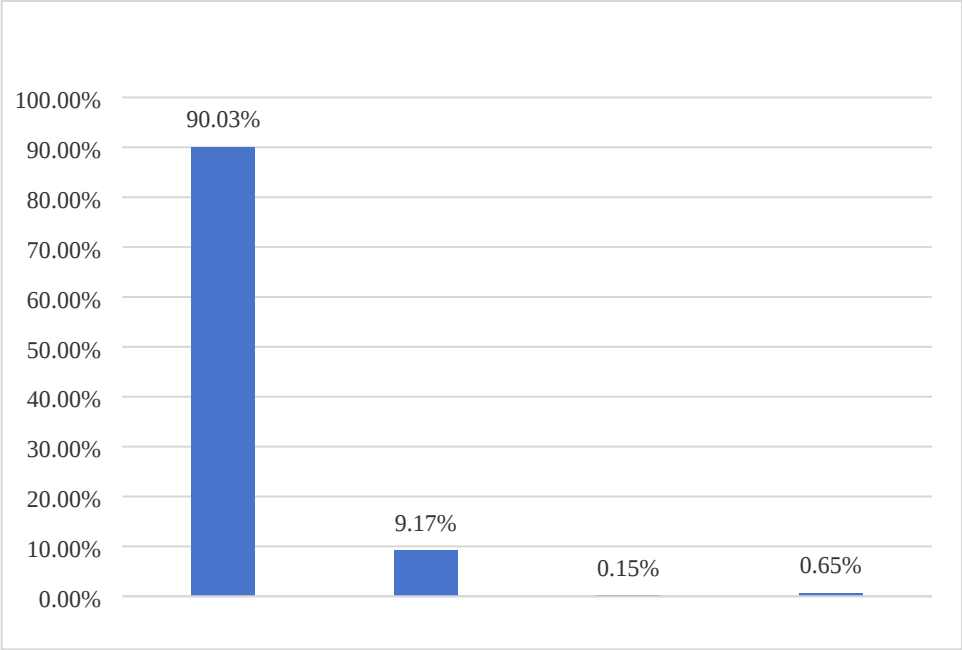
5-2

		kgCO ₂ e	
1		2539.55	9.13%
2		8.75	0.03%
		64.01	9.17%

5.2.3.

5-3

		kgCO ₂ e	
1	-Q235B	2.96E+01	0.11%
2	-20#	2.64E+00	0.01%
3	-45#	3.46E-01	0.00%
4	-Q355B	2.91E+00	0.01%
5	-201	6.56E+00	0.02%
6	-304	5.61E-02	0.0002%
7		6.17E-01	0.002%
8	6	5.56E-03	0.0000%
9		2.10E-06	0.0000%
10		2.32E-01	0.0008%
11	-201	9.53E-01	0.0034%



5-1

5-1	1	CTB1245C-00	
		90.03%	9.17%

6.

±2%	±3%	±3%
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CTB1245C-00

±4%

±2%

±2%

±3%

±4%

n

$$\sqrt{\hspace{15em}}$$

1

2

7.

1 CTB1245C-00

27.80tCO₂e/

90.03%

9.17%

1	
2	
3	
4	
5	
6	
7	CTB1245C-00 BOM
8	2024 -
9	