
3. 2021—2035 HJ 169 B C

2021—2035

2025 9

9

2006 66

2022-2035

2018 26

2022-2035

“ 2035 126.08
114.96 346.10
925.06

40% 2025 31.0

”

“ 2021-2035 — ”
7

“

		39.33 /	
21.82 /			
	912.5 /		COD
289.26 /	18.25 /		2.19
/	75.74 /		

GB3095-2026

PM_{2.5}

2023

2023

1-3

1

2

3

	3				
	1				
	2				
C/AE	3	“III ”	1		“III ”
		2			
		3			
			4		

1-6

				2024	
1	2023	12	1		6
2			2018	8 31	“ ”
3				2025	2025
4				2021	“ ”
	2022			2022 7	“ ”
5					”
	2022				
			2022	55	
6					

”

604

“

() 2

()

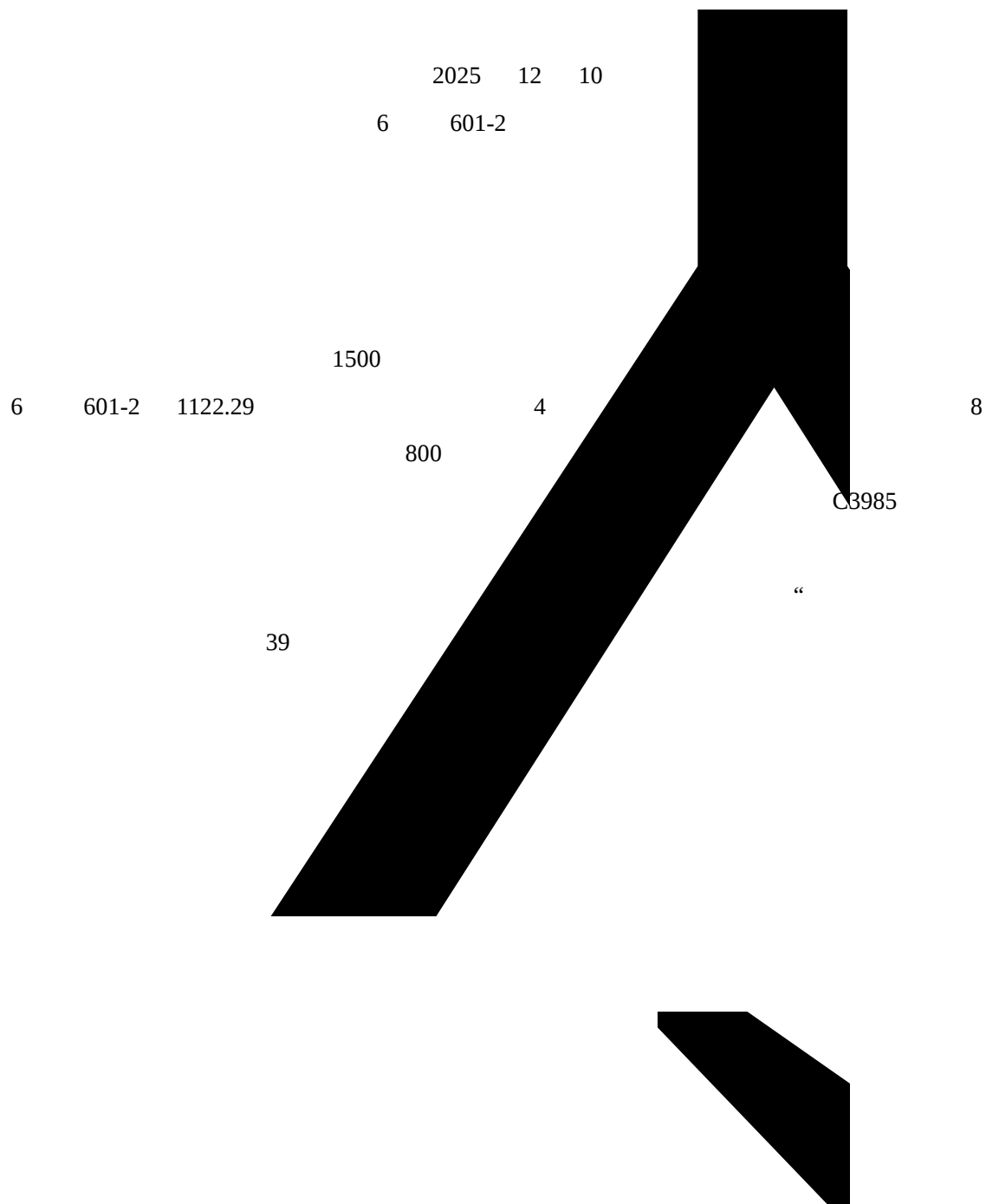
)

6

601-2

4.3km

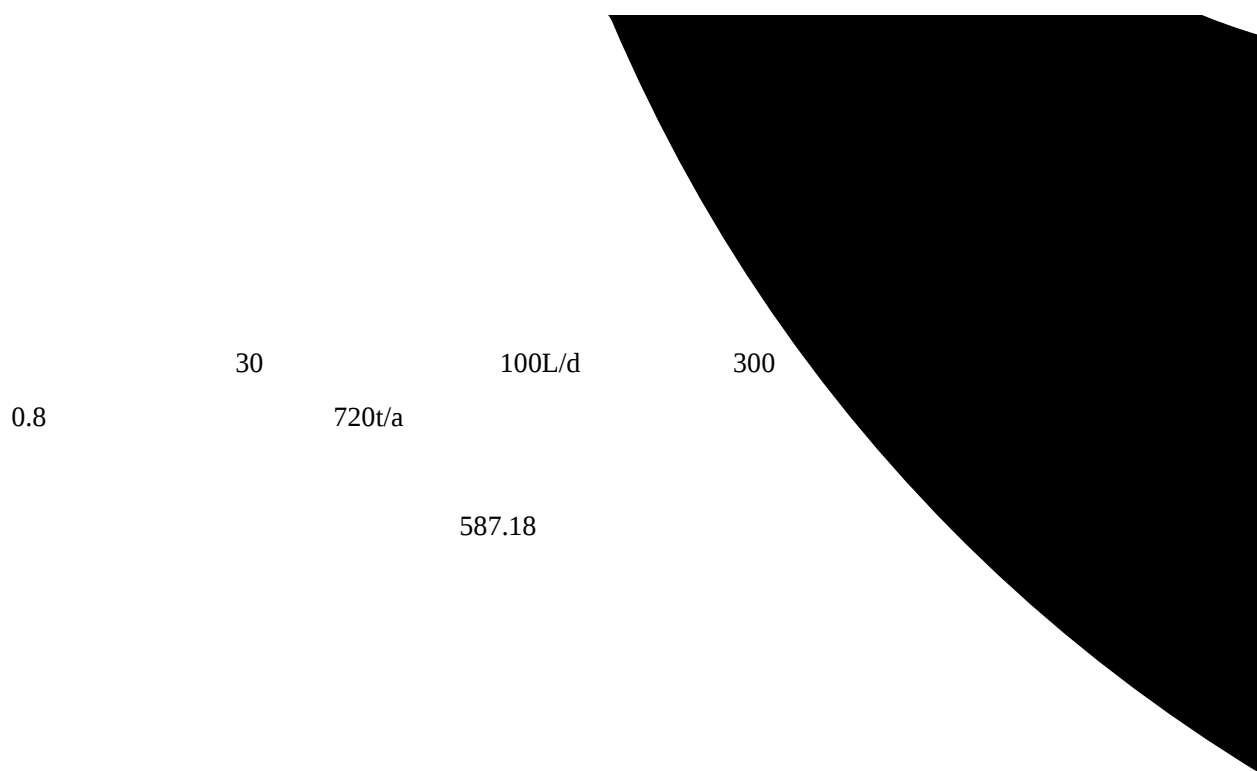
C3985

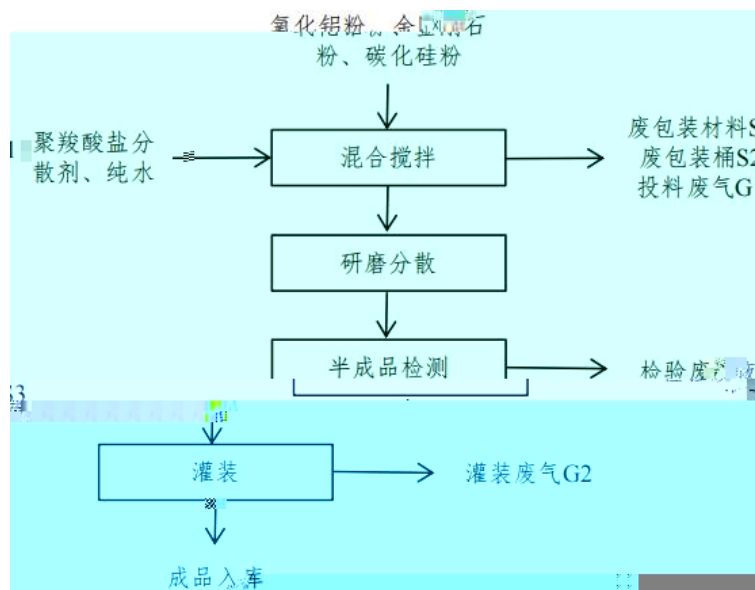


12		/	1		
13		/	1		
14		/	1		
15	PH	/	2		
16		/	2		
17		/	2		
18		/	1		
19		Nano-Zs90	1		
			41	/	/

1		,90-100%	180	t	25kg/	1	
2		99% 1%	20	kg	25kg/	1	
3		98.5%	16	t	25kg/	0.5	
4		50% 50%	20	t	25kg/	1	
5		/	856	t	10m ³	10	

1	1344-28-1	2000	Al ₂ O ₃ 101.96 4.0g/mL 2980	/
2	7782-40-3		C, 12.011 3550-3570°C, 3.48-3.52g/cm ³ , ,	
3	409-21-2	2700	CSi 40.096 / 3.22g/mL	/
4	70789-60-6		50% 50% ,pH 6~9, 1.0-1.2g/cm ³ , -5°C,	/



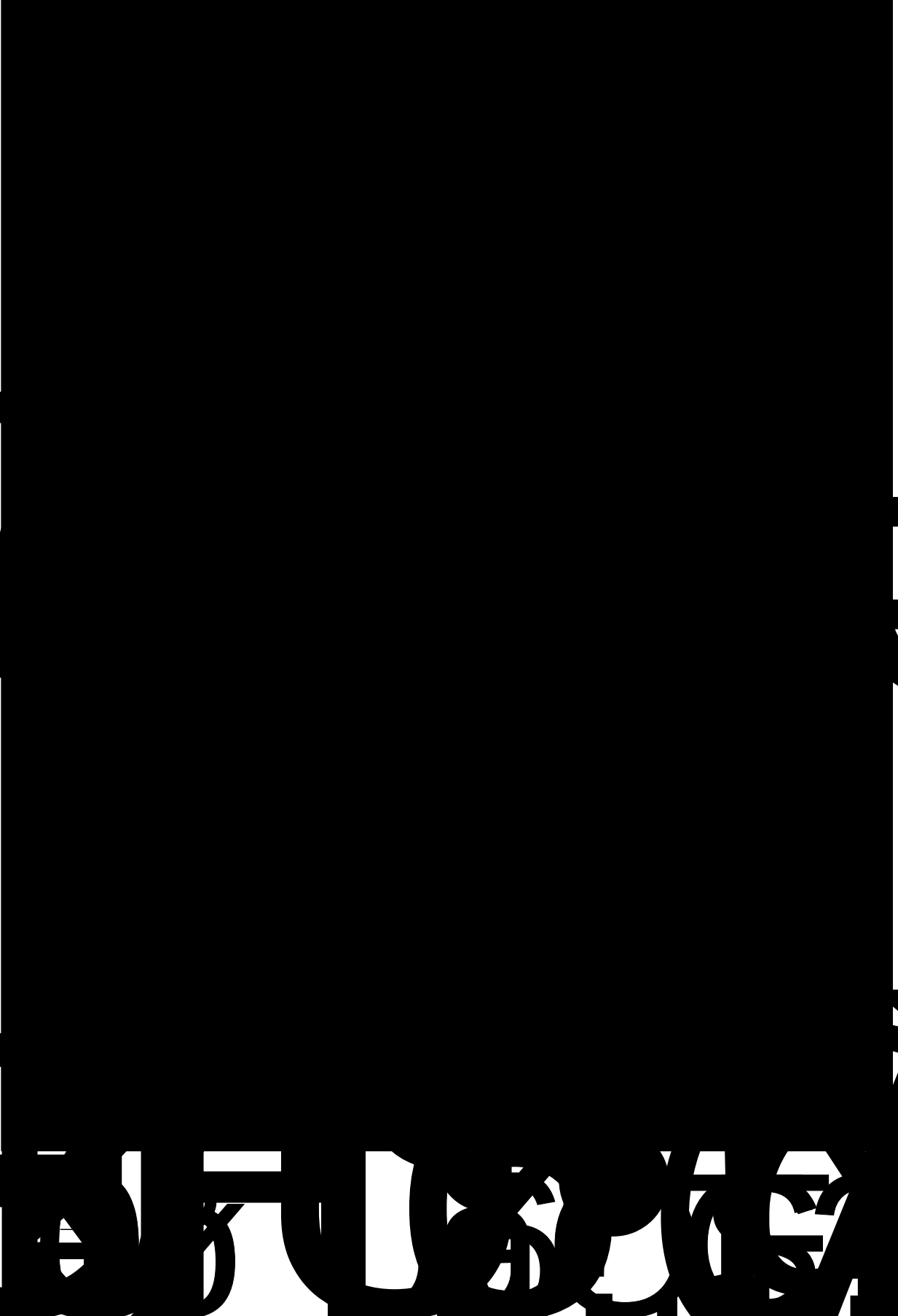


S1

S2

DQW

FP



K

} b

“

” 2024 51

2025

PM_{2.5}

PM_{2.5}

2020

10%

VOCs

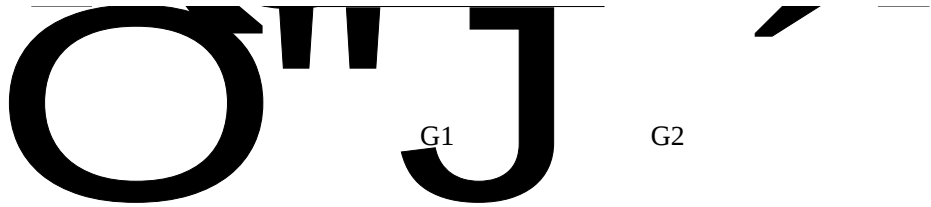
2020

10%

“ ”

“ ”

2025



180t/a 0.02 t/a 16 t/a 196.02t/a

25kg/ 7841

1min/ 0.44h

:

$$Q = 1133.33 \times U^{1.6} \times H^{1.23} \times e^{-0.28W}$$

:Q mg/s;

H m;

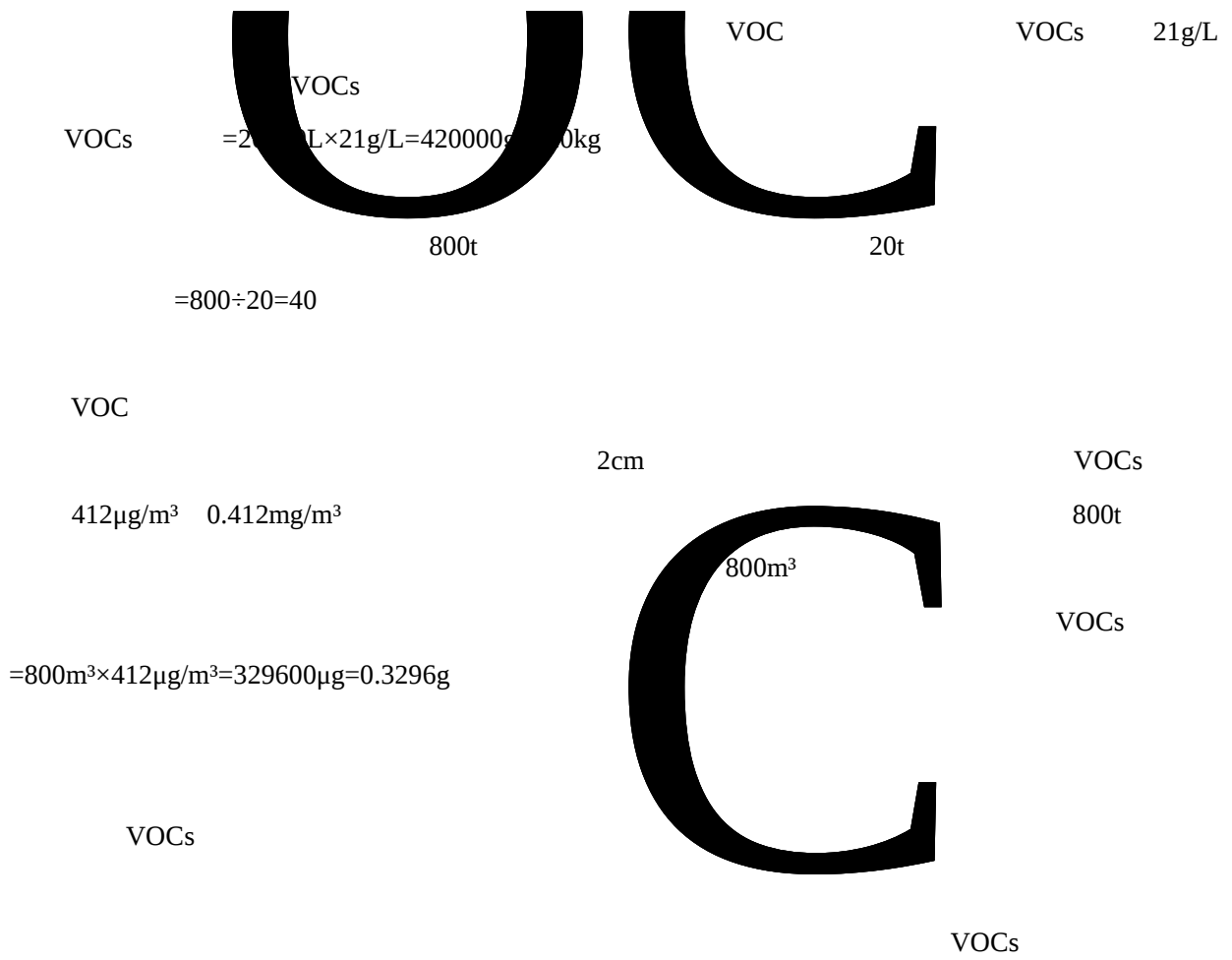
U m/s;

W %;

:

U 0.15m/s H 0.4m W 1%

17.59mg/s(0.063kg/h% n



VOCs



... 柱网和梁 梁柱节点 梁柱节点

40 m³/d
600

100

— 33 —

4-6~4-8

	720	COD	400	0.288		400	0.288	0.0360	
		SS	300	0.216		300	0.216	0.0072	
		NH ₃ -N	40	0.0288		40	0.0288	0.0029	
		TP	5	0.0036		5	0.0036	0.00036	
		TN	50	0.036		50	0.036	0.00864	

I				HJ 1253-2022	1
1	DW001	pH		3	1 / pH GB/T 6920-1986
2		COD		3	1 / HJ828-2017
3		SS		3	1 / GB11901-1989
4		NH ₃ -N		3	1 / HJ535-2009
5		TP		3	1 / GB/T11893-1989
6		TN		3	1 / HJ636-2012

75~85dB(A)																						
1		1	80	1	32	4	20	24.0	4.0	32.0	16.0	51.3	67.5	48.8	54.9	8: 00 ~1 7: 00	26.0	25.3	41.5	22.8	28.9	1
2		2	80	1	36	4	20	20.0	4.0	36.0	16.0	52.9	67.5	47.8	54.9		26.0	26.9	41.5	21.8	28.9	1
3		3	80	1	40	4	20	16.0	4.0	40.0	16.0	54.8	67.5	46.8	54.9		26.0	28.8	41.5	20.8	28.9	1
4		4	80	1	44	4	20	12.0	4.0	44.0	16.0	57.3	67.5	46.0	54.9		26.0	31.3	41.5	20.0	28.9	1
5		1	75	1	31	2	20	25.0	2.0	31.0	18.0	45.9	69.0	44.1	48.8		26.0	19.9	43.0	18.1	22.8	1
6		2	75	1	33	2	20	23.0	2.0	33.0	18.0	46.6	69.0	43.5	48.8		26.0	20.6	43.0	17.5	22.8	1
7		3	75	1	35	2	20	21.0	2.0	35.0	18.0	47.4	69.0	43.0	48.8		26.0	21.4	43.0	17.0	22.8	1
8		4	75	1	37	2	20	19.0	2.0	37.0	18.0	48.3	69.0	42.5	48.8		26.0	22.3	43.0	16.5	22.8	1
9		5	75	1	39	2	20	17.0	2.0	39.0	18.0	49.3	69.0	42.1	48.8		26.0	23.3	43.0	16.1	22.8	1
10		6	75	1	41	2	20	15.0	2.0	41.0	18.0	50.4	69.0	41.6	48.8		26.0	24.4	43.0	15.6	22.8	1
11		7	75	1	43	2	20	13.0	2.0	43.0	18.0	51.6	69.0	41.2	48.8		26.0	25.6	43.0	15.2	22.8	1
12		8	75	1	45	2	20	11.0	2.0	45.0	18.0	53.1	69.0	40.8	48.8		26.0	27.1	43.0	14.8	22.8	1

	13		1	85	1	52	4	20	4.0	4.0	52.0	16.0	71.9	72.5	49.6	59.9		26.0	45.9	46.5	23.6	33.9	1
	14		2	85	1	54	4	20	2.0	4.0	54.0	16.0	78.0	72.5	49.2	59.9		26.0	52.0	46.5	23.2	33.9	1
	15		3	85	1	52	2	20	4.0	2.0	52.0	18.0	71.9	79.0	49.6	58.8		26.0	45.9	53.0	23.6	32.8	1
	16		4	85	1	54	2	20	2.0	2.0	54.0	18.0	78.0	79.0	49.2	58.8		26.0	52.0	53.0	23.2	32.8	1

75~85dB(A)

$$A \qquad LA_j \qquad T \qquad \qquad \qquad t_j$$

$$10 \lg \frac{1}{1} \qquad 10^{0.1} \qquad 10^{0.1}$$

4					0.3t/a	
5					0.4t/a	
6					3.0t/a	
7					4.5t/a	
2025 GB 5085.7-2019 196.02t 25kg 7841 0.15kg =7841 ×0.15kg/ =1.18t/a SW17 900-003-S17 8.36kg/a 95% 90% =8.36kg/a 95% 90%=0.007t/a SW59 900-099-S59 RO RO RO 2~3 RO 0.08t/2a RO GB5085 RO SW59 900-099-S59 5t 25kg 200 1.5kg =200 ×1.5kg/ =300kg/a=0.3t/a 2025 HW49 900-041-49 0.4t 2025 HW49 900-047-49 3t/a 2025 HW49						

900-047-49

4.5t/a

30

0.5kg/d

300

4-14

5			HW49	900-047-49	0.4t/a	0	0.4t/a	0		
6			HW49	900-047-49	3.0t/a	0	3.0t/a	0		
7			/	/	4.5t/a	0	4.5t/a	0		

5m²

GB18597-2023

<

>

2023 154

<

>

2024 16

4-17

1#		0.3	0.075	90	/	0.5	/	1	1	3	5	
		0.4	0.1	90		1	1	1	1			
		3.0	0.75	90		1	1	1	1			

3

2001 199

GB18597-2023

HJ2025-2012

A.

B.

C.

D.

A.

“ ”

B.

C.

D.

E.

6

HJ169-2018

HJ169-2018 B “ B.1

”

B.1

28

GB30000.28-2013			18
GB30000.18-2013			
	HJ169-2018	B	B.2

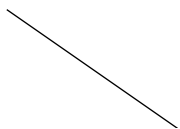
/

B.

/

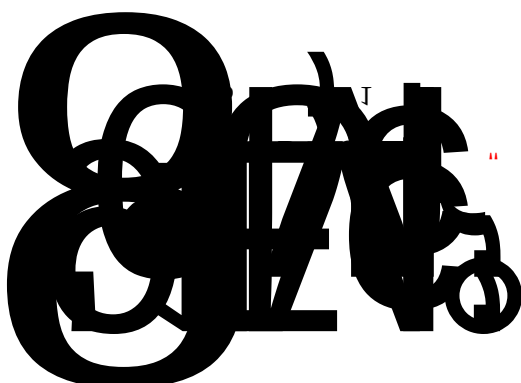
1		， ， ，
2		RTO

“ ”



1	
2	
3	
4	
5	
6	2018 26 -
7	
8	MSDS
9	VOCs
16	" "

108 11



11

11

