

B-2025-04-07



2024

2.1

2024

CO ₂	723.32	723.32
CO ₂	/	/
CO ₂	/	/
CO ₂	8707.78	8707.78
CO ₂	10720.67	10720.67
	CO ₂	723.32
	CO ₂	20152

2.2

C2661

2024

2024

2023

(CO ₂)	19221	20152	4.84%
	217364	228301	5.03%

	(CO ₂ /)	0.0884	0.0883	-0.18%
4.84%	2024	2024	5.03%	
	0.18%	2024		5.03%
				2025.4.02
				2025.4.08
				2025.4.10

1.1	.....	1
1.2	.....	1
1.3	.....	2
2.1	.....	4
2.2	.....	4
2.3	.....	4
2.4	.....	5
3.1	.....	6
3.1.1	.....	6
3.1.2	.....	7
3.1.3	.....	8
3.1.4	.....	23
3.2	.....	29
3.2.1	.....	29
3.2.2	.....	30
3.3	.....	31
3.4	.....	34
3.4.1	.....	34
3.4.2	.....	38
3.4.3	.....	41
3.4.4	.....	42
3.5	.....	43
3.6	43
4.1	44

4.2	44
4.2.1	44
4.2.2	44
4.3	45
4.4	45
1	46
2	47

2024

(1)

(2)

2024

CO₂

CO₂

CO₂

CO₂

1

2

3

4

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17

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GB/T 2589-2008

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GB17167-2006

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2024

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2024

1		1 2 3
2		1 2

2025 03 17 2025
03 28 2024

2025 03 30

2025 03 30			

1

2025 04 02

2025 04

08

2025

04 10

1

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-

-

C2661

-

91330100MA2H12WA2A

-

-

-

1818

-

34565

-

2019 12 03

-

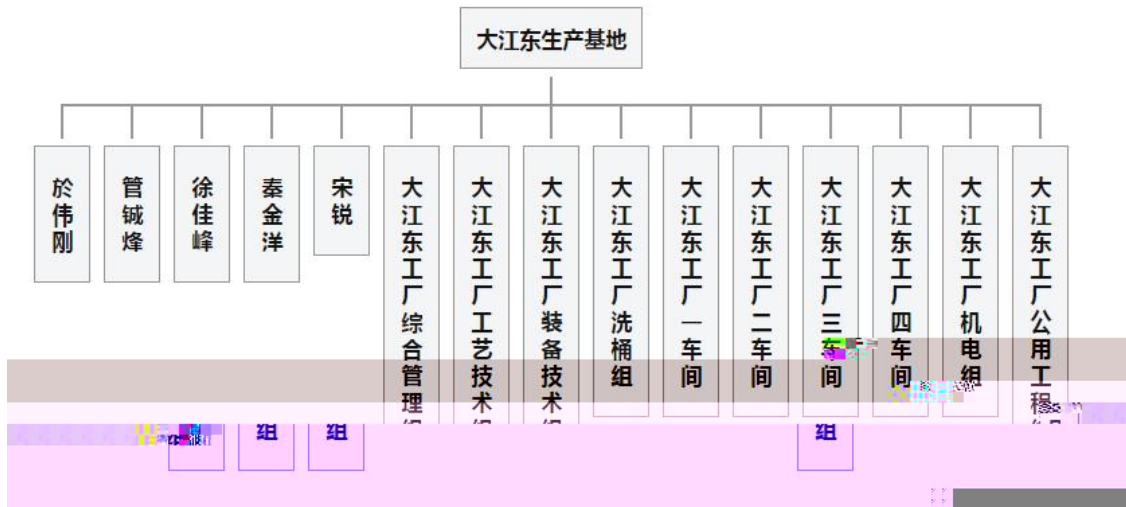
2

2024

		138722	
		22196	
		228301	
		8394.23	

3

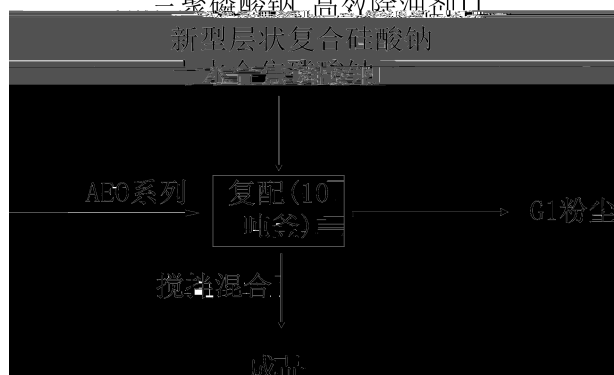
3-1



GB17167

1

元明粉、磷酸三钠
轻质纯碱、五水偏硅酸钠（珠）
三聚磷酸钠、高效除油剂II
新型层状复合硅酸钠
十二烷基硫酸钠



(

II

+

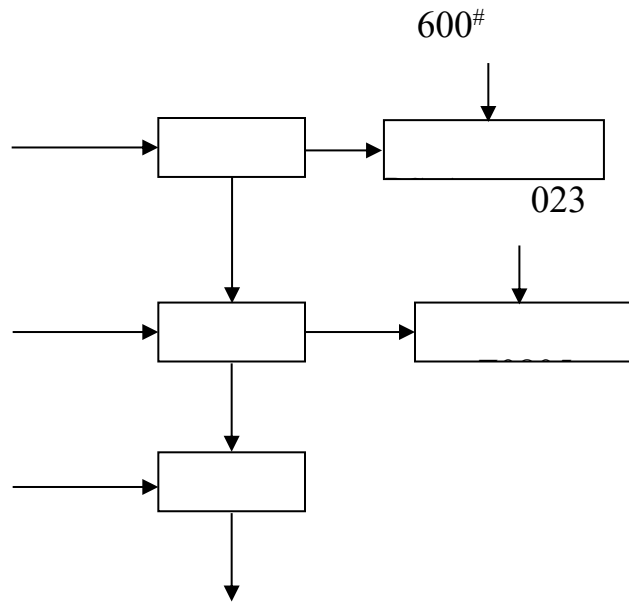
(AEO

)

)

15 20

2



PS-A

600K

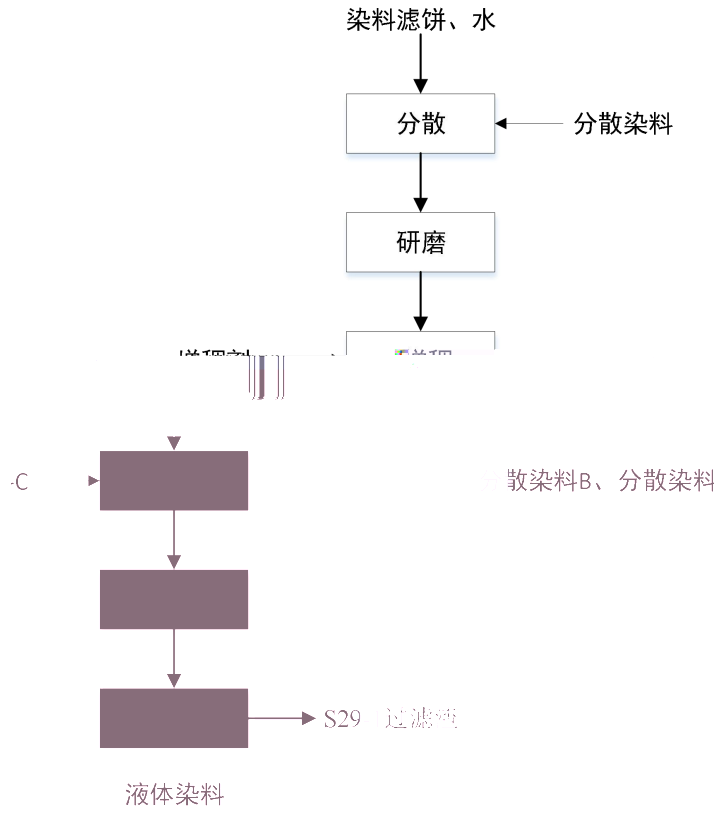
PS-A

023

Z0805

CDT

3

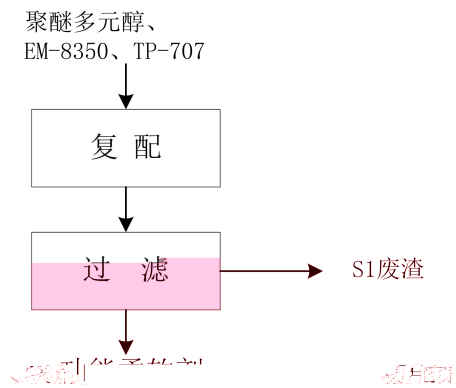


0.5

1.5
6 10
6 10
3

3

3



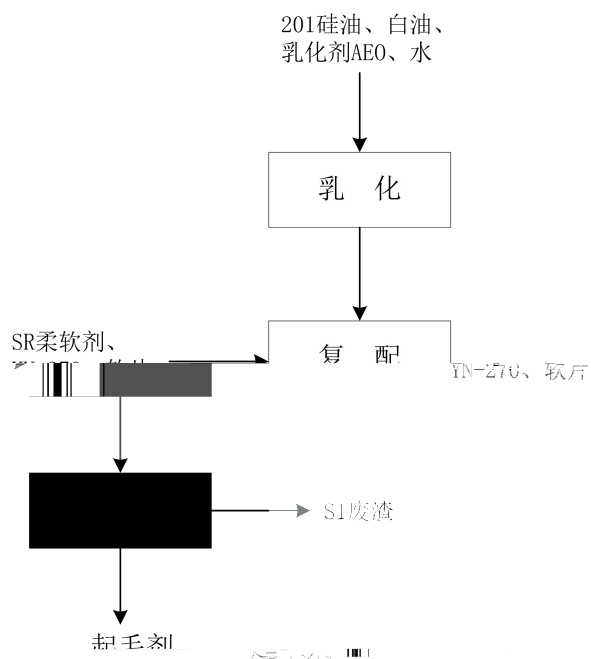
TP-707

EM-8350

40 50

1 2

4



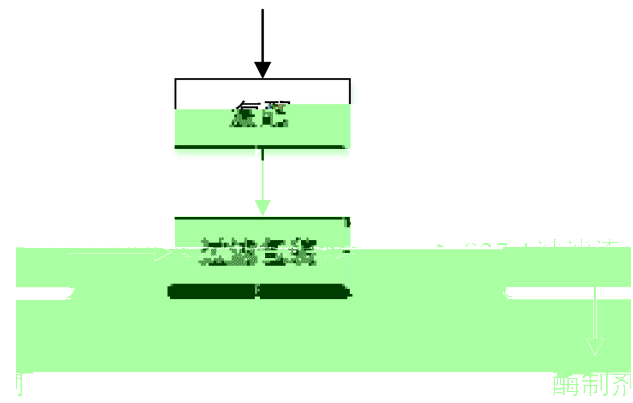
201

AEO

	1	2		0.5
SR		YN-270	40	50
				1
				2

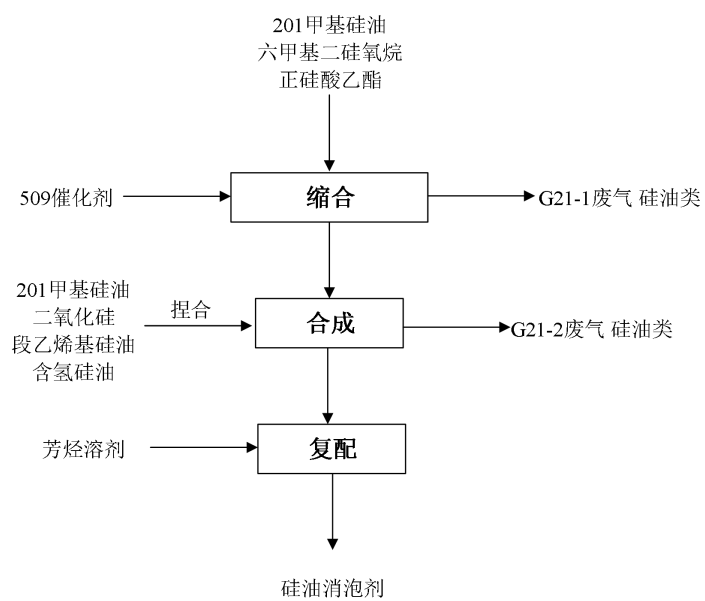
5

去离子水、酶浓缩液、
表面活性剂、尿素、杀菌剂



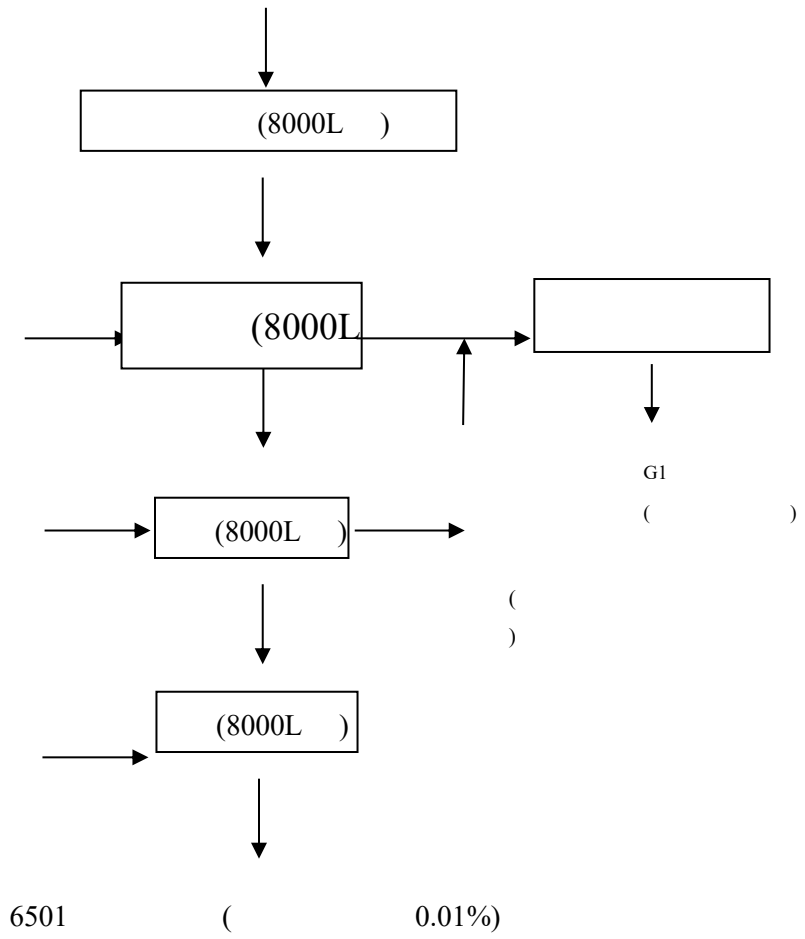
1

6



509	201	115	1
70		180	3

7 6501



30

()

0.09 a

70 90

3

60

7 KOH 1 2 KOH ()
-15)
+

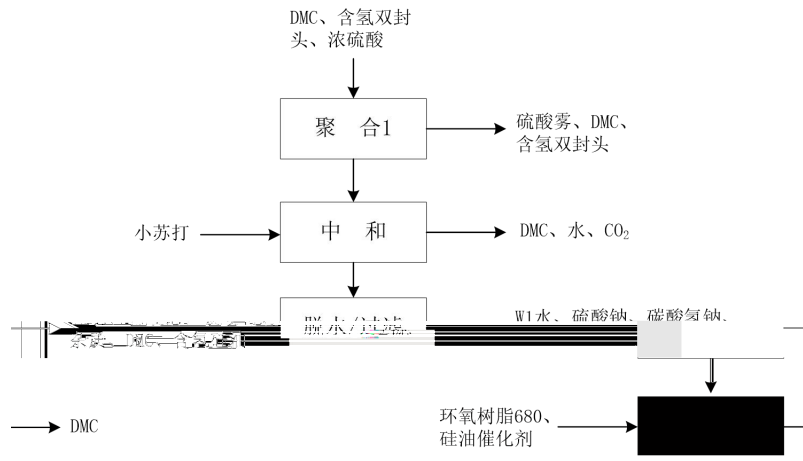
130 135 4 ()

95%

1 70 80 A
60

A 1 2
0.5

A A
2 3%



1
DMC +

				680		
		80	90		3	DMC
	110	120			3	DMC
	2					
						+
						79 81
20						
DMC						40 50
				+		
1	2		3		0.5	
	12					



1
DMC +
30 40 3 DMC
30 1
70 80 2 DMC
DMC
1
DMC

AEPH 1000

80 90 3

0.098MPa

()

0.098MPa

130

4

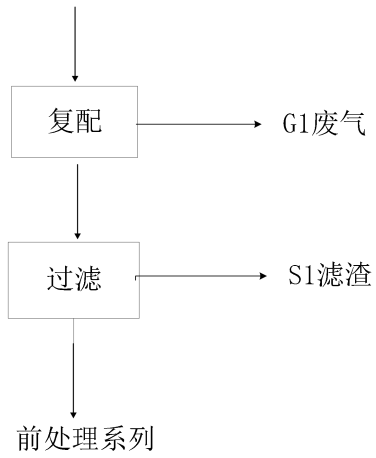
50

()

2

14

EXAEO系列、AEO系列
 SOFTANOL-90、乙二醇丁醚
 杀菌剂WL-20、平平加O
 尿素、乙醇、四氯乙烯、水



	EXAEO	AEO	SOFTANOL-90
O	50	55	2.5 3
()		40	1
	200		

3-2

				W			
1		LGS-20/8G	1	110K		2017-08	
2		LGS-20/8G	1	110K		2017-08	
3		QGDV160W-8	1	160K		2020-12	
4		LS20MMZA	1	250K		2017-09	
5		LS20MMZA	1	250K		2017-09	
6		YS16MNHZA	1	110K		2017-09	
7		XBD8/80-QW	3	110K		2017-07	
8		XBD12/60-150L-KQ	2	132K		2021-05	
9		3LP130-55/5	1	110		2019-10	
10		3LP110-45/5	1	75		2019-10	
11			1	55		2018-10	
12		HF-421B	1	55 W		2020-11	
13			3	11 W		2019-09	
14			1	22 W		2019-09	
15			2	75 W		2019-09	
16			6	7.5 W		2019-09	
17			4	45 W		2019-06	
18			2	75 W		2019-06	
19			2	30 W		2019-06	

20			10	22 W		2019-06	
21			3	37 W		2019-06	
22			8	15 W		2019-06	
23			5	11 W		2019-06	
24			5	11 W		2019-06	
25			8	75 W		2019-06	
26			2	26 W		2019-06	
27			1	30 W		2019-06	
28			2	22 W		2019-06	
39			2	22 W		2019-06	
30			5	18.5 W		2019-06	
31			4	55 W		2019-06	
32			8	15 W		2019-06	
33		DMX250M-2	3	55 W		2021-08	
34		GYB5000A-65-Q-N	3	90 W		2021-08	
35			1	37 W		2021-08	
36			12	30 W		2019-04	
37			24	22 W		2019-04	
38			10	37 W		2019-04	
39			5	22 W		2019-04	
40			3	15 W		2019-04	

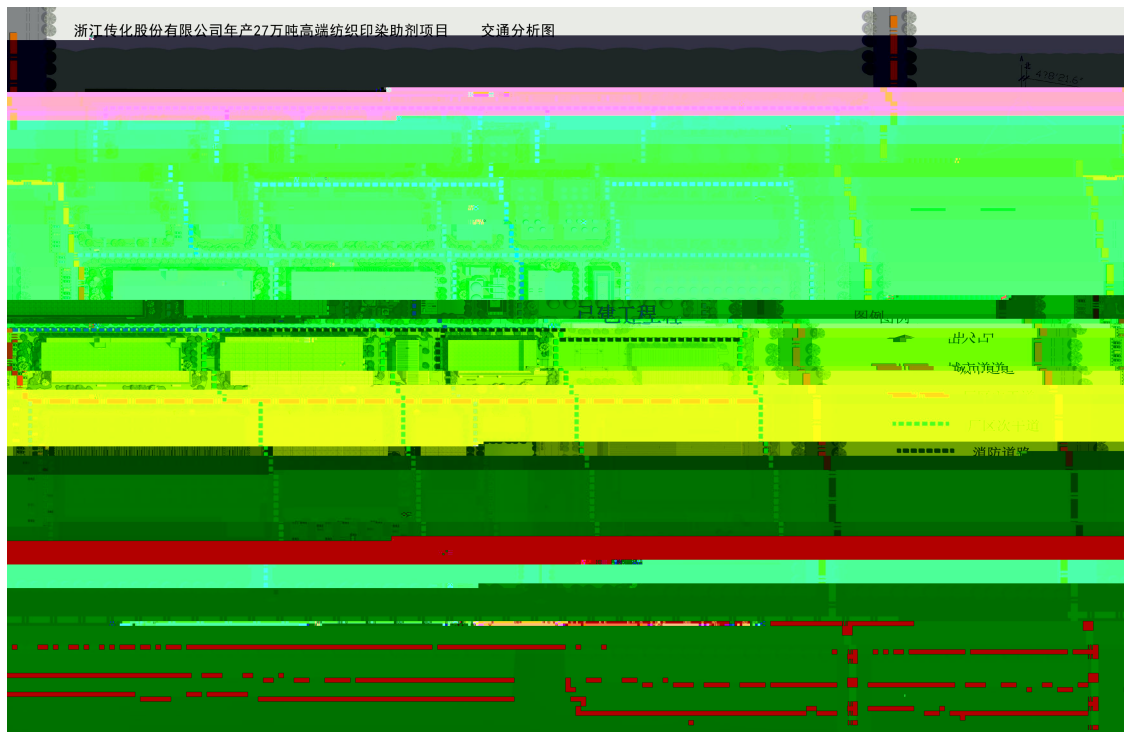
41			2	18.5 W		2019-04	
42		ALB125/40	2	55 W		2017-07	
43		ALB125/40	1	55 W		2017-07	
44		ALB50/120	2	15 W		2017-07	
45		ALB125/26	3	18.5 W		2017-07	
46		ALB100/40	2	37 W		2017-10	
47		ALB100/40	2	37 W		2017-10	
48		ALB100/40	1	37 W		2017-07	
49		ALB125/40	1	55 W		2017-07	
50		ALB150/40	1	75 W		2017-07	
51		ALB150/40	1	75 W		2017-07	
52		KQW125	1	37 W		2017-07	
53		KQW125	2	37 W		2017-07	
54		CDLF80/40	1	30 W		2019-10	
55			2	22 W		2019-10	
56			1	45 W		2019-10	
57			1	45 W		2019-10	
58		BLD18.5-5-13	2	18.5 W		2020-05	
59		YB300J-60	1	37 W		2019-10	
60		HDSR-150A	2	30 W		2017-10	
61		SF75	1	75 W		2020-10	
62		XAAGF300/1500-4	1	37 W		2020-08	
63			9	5.5 W		2017-10	

64			31	7.5 W		2017-10	
65			12	11 W		2017-10	
66			4	15 W		2017-10	
67			4	22KW		2019-04	
68			30	7.5 W		2019-04	
69			27	11 W		2019-04	
70			2	7.5 W		2019-04	
71			9	15 W		2019-04	
72			2	18.5 W		2019-04	
73			4	22 W		2019-04	
74			7	15 W		2019-04	
75			6	11 W		2019-04	

		DSSD331	2		
		DSSD331	2		
		DSSD331	2		
		AGR96EL	0.5		
		AGR96EL	0.5		
		AGR96EL	0.5		
		AGR96EL	0.5		
		AGR96EL	0.5		
		AGR96EL	0.5		
		AGR96EL	0.5		
		AGR96EL	0.5		
		AGR96EL	0.5		
		AGR96EL	0.5		
		AGR96EL	0.5		
		DT862a	0.1		
		DT862a	0.1		
		DT862a	0.1		
		ZT-3000A	0.5		9
		ZT-3000A	0.5		4

1818

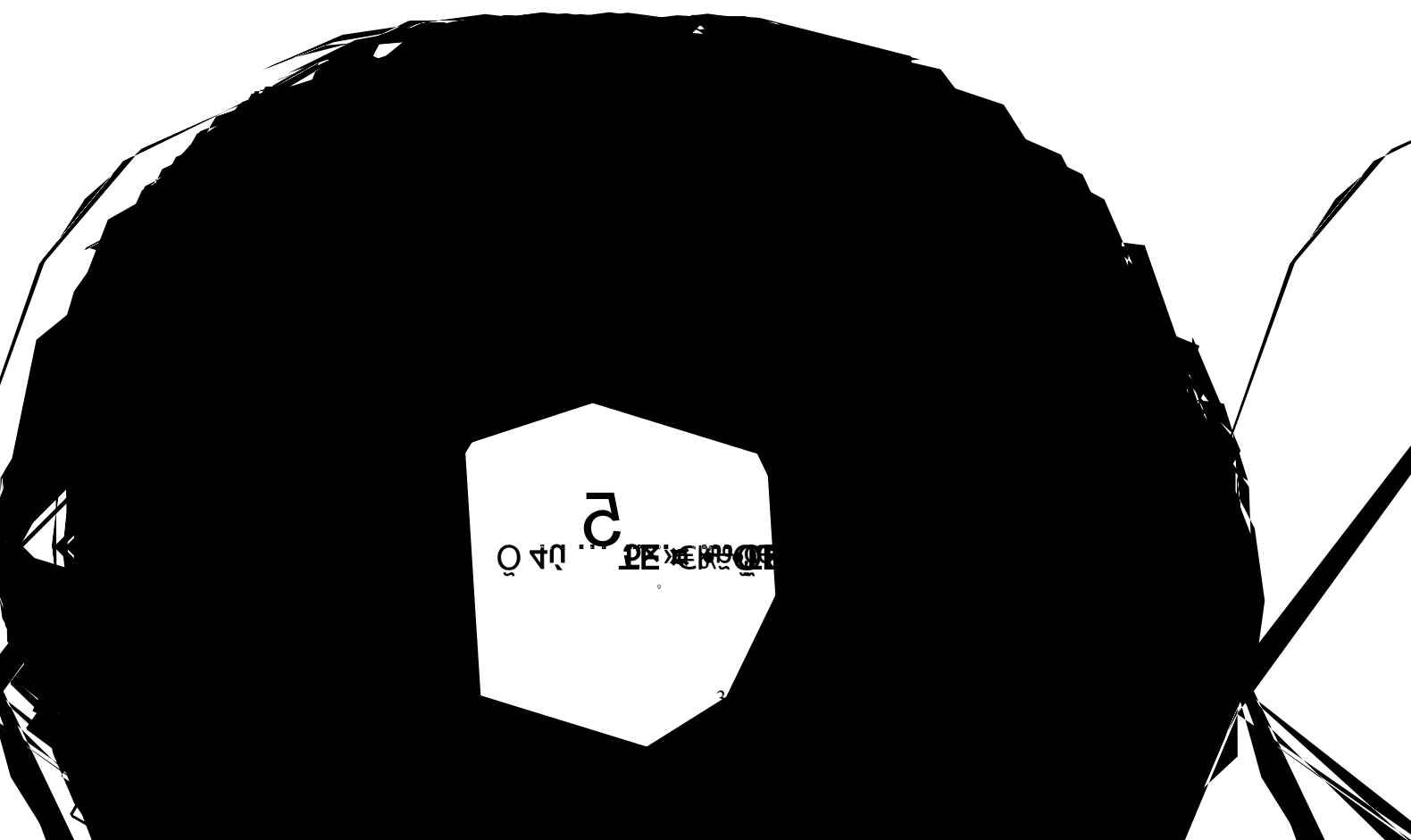
2024



CO₂

CO₂

RTO



$$E = E_{\text{燃烧}} + E_{\text{原材料}} + E_{\text{过程}} + E_{\text{电}} + E_{\text{热}}$$

E

CO₂

E

CO₂

E

CO₂

E

CO₂

E

CO₂

E

CO₂

$$E_{\text{CO}_2\text{燃烧}} = \sum_i \left(AD_i \times CC_i \times OF_i \times \frac{44}{12} \right)$$

AD

N^3

CC

/

/ N^3

OF

%

CC=NCV EF

NCV

GJ/

GJ/ N^3

EF

/GJ

E =AD EF

E

CO₂

CO₂

AD

MW

EF

CO₂

CO₂/MW

E =AD EF

E

CO₂

CO₂

AD

GJ

EF

CO₂

CO₂/GJ

		33.45326		33.45326
	1			
	2			
		33.45326		33.45326
		/		
	1			2024
		33.45326 ³		
	2			2024
		33.45326 ³		

		96154.37		97460.604
	GJ			
	$AD = Ma \cdot (E - 83.74) \cdot 10^{-3}$			
	AD		GJ	
	Ma			
	E			
	J/			
		165	0.423MPa	EQ3.0
		2783.74 J/		
	1			
	2			

		36096.52	36096.52
		/	0%
1	36096.52	97460.604GJ	2024
2		2024	36096.52 0%
	NC1		

		GJ	GJ
	36096.52	97460.604	36096.52 96154.37

		389.31		389.31
	GJ/			

		0.0153		0.0153
	C/GJ			

		98		98
	%			

		0.5366		0.5366
	CO ₂ /MW			
	2022			
	2022			

		0.11		0.11
	CO ₂ /GJ			

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2024

2024

	A	B	C	D	$E=A*B*C*D/100*44/12$
	33.45326	389.31	0.0153	98	723.32

16227.700	0.5366	8707.78

97460.604	0.11	10720.67
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2024

2024

CO ₂	723.32	723.32
CO ₂	/	/
CO ₂	/	/
CO ₂	8707.78	8707.78
CO ₂	10720.67	10720.67
	CO ₂	723.32
	CO ₂	20152

C2661

2024

2024

2023

	(CO ₂)	19221	20152	4.84%
		217364	228301	5.03%
	(CO ₂ /)	0.0884	0.0883	-0.18%

2024

4.84% 2024

5.03%

0.18%

2024

5.03%

1	
2	
3	



