2

GB —20

GB 18484—2001

Standard for pollution control on hazardous waste incineration

( )

20 — — 20 — —

1999 2001

1

24

DRE

A

20

2021 1 1 2022 1 1

1

2

GB 8978

GB 12348

GB 14554

GB 16297

GB 18597

GB 18598

GB 30485

GB/T 16157

HJ 57

HJ 75 SO_2 NO_X

HJ 77.2 -

HJ 540

HJ 543

HJ 548

HJ 549

HJ 561

HJ 629

HJ 657

HJ 685

HJ 688

HJ 692

HJ 693

HJ 2025

HJ/T 20

HJ/T 27

HJ/T 29

HJ/T 42

HJ/T 44

HJ/T 56

HJ/T 63.1

HJ/T 63.2

HJ/T 63.3 -

HJ/T 64.1

HJ/T 64.2

HJ/T 64.3 -

HJ/T 65

HJ/T 67

HJ/T 365 ( )

HJ/T 397

28

3

3.1

hazardous waste

3.2

incineration

3.3

high-temperature thermal treatment

3.4

incinerator

3.5

incineration capacity

3.6

incineration residues

3.7

loss of ignition

$$P = \frac{(A-B)}{A} \times 100\%$$

P— %

A— g

B— 600 ±25 3 h g

3.8

retention time of flue gas

≥1100

3.9

temperature of incinerator

3.10

combustion efficiency CE

$$CE = \frac{[CO_2]}{[CO_2]+[CO]} \times 100\%$$

$[CO_2]$ $[CO]$— CO_2 CO

3.11

destruction removal efficiency DRE

DRE

$$DRE = \frac{(W_i - W_0)}{W_i} \times 100\%$$

W_i— kg/h

W_o— W_i kg/h

3.12

dioxins

- - PCDDs PCDFs

3.13

toxic equivalency factor TEF

2,3,7,8- - - Ah ,

A

3.14

toxic equivalent quantity TEQ

2,3,7,8- - -

$TEQ=\sum($ $\times TEF)$

3.15

existing incinerator

3.16

new incinerator

3.17

standard conditions

273.15 K 101.325 kPa

3.18

average value

6-12 3 0.5-8

3

3.19

1 hourly average value

1 1 4

3.20

24 daily average value

24 1

3.21

emission concentration at baseline oxygen content

11% V/V% O_2

$$\rho = \frac{\rho'(21-11)}{\varphi_0(O_2)-\varphi'(O_2)}$$

ρ— mg/m^3

ρ'— mg/m^3

$\varphi_0(O_2)$— % 21

$\varphi'(O_2)$— %

4

4.1

4.2

5

5.1

5.1.1

5.1.2

5.2

5.2.1

5.2.2

5.2.2.1 GB 18597

5.2.2.2

5.2.3

5.2.3.1 1

1

	s		mg/m^3		%	%	%
≥1100	≥2.0	≥6%	1	24	≥99.9	≥99.99	5
			≤100	≤80			

5.2.3.2 HJ 561

5.2.3.3

5.2.3.4 1

1

5.2.4

5.2.5

5.2.5.1 GB 16297

5.2.5.2

5.2.5.3 GB/T 16157

1 m 3 m^2 220 V

6

6.1 2021 12 31 GB 18484-2001

6.2 2022 1 1 2

2

1	mg/m^3	30	1
		20	24
2	mg/m^3	100	1
		80	24
3	NO_2 , mg/m^3	400	1
		300	24
4	mg/m^3	200	1
		100	24
5	mg/m^3	4.0	1
		2.0	24
6	mg/m^3	60	1
		50	24
7	Hg , mg/m^3	0.05	
8	Tl+Cd , mg/m^3	0.05	
9	Pb , mg/m^3	0.5	
10	As , mg/m^3	0.5	
11	Cr+Sn +Sb+Cu+Mn+Ni , mg/Nm^3	2.0	
12	ng TEQ/m^3	0.5	

6.3 GB 18597 HJ 2025

GB 18598 GB 30485

6.4 GB 8978

6.5 GB 12348

6.6 GB 14554

7

7.1 1

1 6

7.2

1

7.3

6

7.4

60

7.5 7.1 7.2 7.3 7.4

1 150 mg/m^3

7.6

8

8.1

8.2

8.3

GB/T 16157

HJ/T 397 HJ/T 365 HJ 75

8.4 1

1 HJ/T 365

3

8.5

1

8.6 3

3

3

1			GB/T 16157

2			HJ/T 44
3			HJ/T 42
			HJ 692
			HJ 693
4			HJ/T 56
			HJ 57
			HJ 629
5			HJ/T 67
			HJ 688
6			HJ/T 27
			HJ 548
			HJ 549
7			HJ 543
8			HJ 657
			HJ/T 64.2
		-	HJ/T 64.3
			HJ/T 64.1
9			HJ 685
			HJ 657
10			HJ 540
			HJ 657
11			HJ 657
			HJ/T 29
12			HJ 657
			HJ/T 65
13			HJ 657
14			HJ 657
			HJ/T 63.2
		-	HJ/T 63.3
			HJ/T 63.1
15		-	HJ 77.2

8.7

8.7.1 HJ/T 20

8.7.2 3.7

9

9.1

9.2

A

A.1 PCDDs/Fs

PCDDs [1]	TEF	PCDFs [2]	TEF
2,3,7,8-TCDD	1	2,3,7,8-TCDF	0.1
1,2,3,7,8-PeCDD	0.5	1,2,3,7,8-PeCDF	0.05
1,2,3,4,7,8-HxCDD	0.1	2,3,4,7,8-PeCDF	0.5
1,2,3,6,7,8-HxCDD	0.1	1,2,3,4,7,8-HxCDF	0.1
1,2,3,7,8,9-HxCDD	0.1	1,2,3,6,7,8-HxCDF	0.1
1,2,3,4,6,7,8-HpCDD	0.01	1,2,3,7,8,9-HxCDF	0.1
OCDD	0.001	2,3,4,6,7,8-HxCDF	0.1
		1,2,3,4,6,7,8-HpCDF	0.01
		1,2,3,4,7,8,9-HpCDF	0.01
		OCDF	0.001
1 - -			
2			