ICS
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GB 18484—2020

GB 18484—2001

Standard for pollution control on hazardous waste incineration

2020- 11- 26 2021- 07- 01

1999 2001

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2021 7 1 GB

184842001

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GB 8978

GB 12348

GB 14554

GB 16297

GB 18597

GB 37822

GB/T 16157

HJ/T 20

HJ/T 27

HJ/T 42

HJ/T 43

HJ/T 44

HJ/T 55

HJ/T 56

HJ 57

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 75 SO_2 NO_X

HJ 77.2 -

HJ 91.1

HJ 212

HJ/T 365

HJ/T 397

HJ 540

HJ 543

HJ 548

HJ 549

HJ 561

HJ 604 -

HJ 629

HJ 657

HJ 685

HJ 688

HJ 692

HJ 693

HJ 819

HJ 836

HJ 916

HJ 973

HJ 1012

HJ 1024

HJ 2025

39

28

10

3

3.1

hazardous waste

3.2

incineration

3.3

incineration facility

3.4

incinerationcapacity

3.5

incineration residues

3.6

loss on ignition

1

$$P = \frac{(A-B)}{A} \times 100\% \quad \text{.....} \quad 1$$

P— %

A— 105±25 1 h g

B— 600±25 3 h g

3.7

high temperature section of incinerator

≥ 1100

3.8

flue gas residence time

≥ 1100

3.9

temperature fo high temperature section of incinerator

5

5

3.10

combustion efficiency CE

2

$$CE = \frac{C_{CO_2}}{C_{CO_2} + C_{CO}} \times 100\% \quad (2)$$

C_{CO_2} — CO_2

C_{CO} — CO

3.11

destruction removal efficiency DRE

3

$$DRE = \frac{(W_i - W_o)}{W_i} \times 100\% \quad (3)$$

W_i — kg/h

W_o — W_i kg/h

3.12

dibenzo-*p*-dioxins and dibenzofurans

- - PCDDs PCDFs

3.13

toxic equivalency factor TEF

2,3,7,8- - - Ah

A

3.14

toxic equivalent quantity TEQ

2,3,7,8- - -

4

TEQ = ∑(×TEF) (4)

TEQ—

TEF—

3.15

standard conditions

273.15 K 101.325 kPa

3.16

average value

6~12 3 0.5~8 3

3.17

1 1-hour average value

1 1 3~4

3.18

24 24-hour average value

24 1 20

3.19

daily average value

CEMS 1

5

$$\overline{C_{Qd}} = \frac{\sum_{h=1}^{m} \overline{C_{Qh}}}{m} \quad \text{5}$$

$\overline{C_{Qd}}$ —CEMS d mg/m³

$\overline{C_{Qh}}$ —CEMS h 1 mg/m³

m—CEMS $m \geq 20$

3.20

emission concentration at baseline oxygen content

11% O_2

6

$$\rho = \frac{\rho'(21-11)}{\varphi_0(O_2) - \varphi'(O_2)} \quad \text{6}$$

ρ'— mg/m^3

$\varphi_0(O_2)$— % 21

$\varphi'(O_2)$— %

3.21

existing incineration facility

3.22

new incineration facility

4

4.1

4.2

4.3

5

5.1

5.1.1 GB 18597

5.1.2

5.2

5.2.1

5.2.2

5.2.3 GB 18597

5.3

5.3.1

5.3.1.1

5.3.1.2

5.3.1.3 HJ 561

5.3.2

5.3.2.1

5.3.2.2

5.3.2.3

5.3.3

5.3.3.1 1

1

		s		mg/m³				
	≥ 1100	≥ 2.0	6~15%	1	24	≥ 99.9%	≥ 99.99%	5%
				≤ 100	≤ 80			

5.3.3.2 1

1

5.3.4

5.3.4.1

5.3.4.2

5.3.5

5.3.5.1 2

GB/T 16157

2

kg/h	m
≤ 300	25
300~2000	35
2000~2500	45
≥ 2500	50

5.3.5.2 200

5

5.3.5.3

6

6.1

6.4 6.5 6.6 6.7

6.2 2021 12 31 GB 184842001 3

2022 1 1 3

6.3 6.2 3

3

mg/m³

1

13	Sn+Sb+Cu+Mn+Ni+Co	2.0	
14	ng TEQ/Nm^3	0.5	

6.4 GB 16297 GB 14554
GB 37822 VOCs
GB 37822

6.5

6.6 GB 8978

6.7 GB 12348

7

7.1

7.1.1 HJ 2025

7.1.2

7.1.3

7.1.4

7.1.5

7.2

7.2.1 1
6

7.2.2 1

7.2.3 7.2.2

60

7.2.4 7.2.1 7.22 7.23

1 150 mg/m^3

7.2.5 5 1100

8

8.1

8.1.1 HJ 819

8.1.2

8.1.3

8.2

8.2.1

GB/T 16157 HJ 916 HJ/T 397 HJ/T 365

HJ 75

8.2.2 1

2 3

8.2.3 4

4

1	[redacted]		
2			
3			

5	HF		HJ 688
6	HCl		HJ/T 27
			HJ 548
			HJ 549
7			HJ 543
8			HJ/T 64.1
			HJ/T 642
		-	HJ/T 64.3
			HJ 657
9			HJ 685
			HJ 657
10			HJ 540
			HJ 657
11			HJ 657
12			HJ/T 65
			HJ 657
13			HJ 657
14			HJ/T 63.1
			HJ/T 63.2
		-	HJ/T 63.3
			HJ 657
15		-	HJ 77.2
			HJ 916
16			HJ/T 55
		-	HJ 604
			HJ 1012

8.2.4 1

A

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PCDDs/PCDFs

A PCDDs/PCDFs

A PCDDs/PCDFs

		WHO-TEF 1998	WHO-TEF 2005	I-TEF
PCDDs[(a)]	2,3,7,8-T_4CDD	1	1	1
	1,2,3,7,8-P_5CDD	1	1	0.5
	1,2,3,4,7,8-H_6CDD	0.1	0.1	0.1
	1,2,3,6,7,8-H_6CDD	0.1	0.1	0.1
	1,2,3,7,8,9-H_6CDD	0.1	0.1	0.1