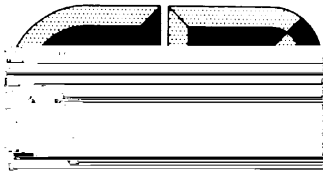
ICS 13.040.40
Z 60



GB 31570-2015

Emission standard of pollutants for petroleum refining industry

2015-04-16 2015-07-01

..... II
1 1
2 1
3 4
4 6
5 9
6 14
7 17

2015 7 1 2017 7 1

GB 8978-1996

GB 16297-1996 GB

9078-1996

2015 4 3

2015 7 1

1

GB 20950-2007

2

GB 20950-2007

GB/T 6920 pH

GB/T 7469

GB/T 15439	(a)	
GB/T 15503		BPHA
GB/T 16157		
GB/T 16489		
HJ/T 27		
HJ/T 38		
HJ/T 40		(a)
HJ/T 42		
HJ/T 43		
HJ/T 45		
HJ/T 55		
HJ/T 56		
HJ/T 57		
HJ/T 60		
HJ/T 63.1		
HJ/T 63.2		
HJ/T 63.3		
HJ/T 70		
HJ/T 75		
HJ/T 76		
HJ/T 91		
HJ/T 132		
HJ/T 195		
HJ/T 200		
HJ/T 373		
HJ/T 397		
HJ/T 399		
HJ 478		
HJ 484		
HJ 493		
HJ 494		
HJ 495		
HJ 501		
HJ 502		

HJ 503	4-
HJ 505	BOD_5
HJ 535	
HJ 536	
HJ 537	
HJ 544	
HJ 548	
HJ 549	
HJ 583	/
HJ 584	/
HJ 597	
HJ 629	
HJ 636	
HJ 637	
HJ 639	/
HJ 644	HJ Tq Q É)B)B)B ©

" Bü

HJ 732

HJ 733

HJ 734 /

28

39

3

3.1 petroleum refining industry

3.2 petroleum refining industry wastewater

3.3 process wastewater

3.4 polluted rainwater

3.5 alkaline wastewater

3.6 sour water

≥ 50 mg/L ≥ 100 mg/L

3.7 aromatic hydrocarbon wastewater

3.8 wastewater collection and transportation system

3.9 effluent volume

3.20 catalytic cracking gas

3.21 acid gas recovery unit

3.22 air oxidation reactor

3.23 malfunction/upsets

3.24 stack height

3.25 standard condition

273.15 K 101325 Pa

3.26 existing facility

3.29

2		70	—
3		60	—
4		20	—
5		8.0	—
6		40	—
7		1.0	—
8		20	—
9		5.0	20
10		1.0	1.0
11		0.5	0.5
12		1.0	1.0
13		0.1	0.2
14		0.1	0.2
15		0.4	0.6
16		0.4	0.6
17		0.4	0.6
18		0.4	0.6
19		0.5	0.5

20 (a)



3		50	—	
4		10	—	
5		5.0	—	
6		30	—	
7		0.5	—	
8		15	—	
9		3.0	15	
10		0.5	1.0	
11		0.3	0.5	
12		1.0	1.0	
13		0.1	0.1	
14		0.1	0.1	
15				

Y —— t

Q —— m^3/t

ρ —— mg/L

Q $\sum Y \cdot Q$ 1

5

5.1

ρ —— mg/m^3

5.2

5.2.1 2015 7 1 2017 7 1

5.2.2 ≥ 76.6 kPa

5.2.3 ≥ 5.2 kPa 27.6 kPa ≥ 150 m^3

≥ 27.6 kPa 76.6 kPa ≥ 75 m^3

a

b

c

3 4

5.2.4

15

5.2.5 6

1

5.3

5.3.1 2015 7 1 2017 7 1

5.3.2

a

b

c

d

e

f

g

h

5.3.3

a / 3

b 6

c 30

d

5.3.4

a

2000 μmol/mol

b

500 μmol/mol

5.3.5

a 15

b 5

c 15

5.3.6

1

5.4

5.4.1 2015 7 1 2017 7 1

5.4.2

5.4.3

3 4

5.4.4

3 4

200 mm

10 mL 3

5.4.5

5.4.6

3 4

a

b

c

d

e

5.4.7

a

b

c

1

5.4.8

5.4.9

ə U

3 4

5.4.10

α 15m

5.5

5.5.1 1 5

5

mg/m^3

1		1.0
2		0.2
3	(a)	0.000008
4		0.4
5		0.8
6		0.8
7		4.0

5.5.2

6

6.1

6.1.1

1

			GB/T 7475
		65	HJ 700
17			GB/T 7485
			HJ 694
		65	HJ 700
18			GB/T 11910
		Bü	GB/T 11912