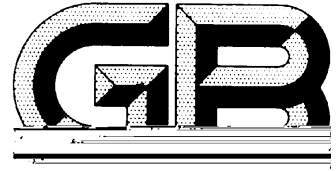


ICS 13.040.40
Z 60



; 6 ' % + \$! & \$ %

Emission standard of pollutants for petroleum refining industry

(发布稿)

& \$ % ! \$ (! % *

& \$ % ! \$ + ! \$ %

.....

2015 7 1

2017 7 1

GB 8978-1996

%

GB 20950-2007

&

GB 20950-2007

GB/T 6920

pH

GB/T 7469

GB/T 7470

GB/T 7475

GB/T 7485

GB/T 8017

GB/T 11890

GB/T 11893

GB/T 11895

(a)

GB/T 11901

GB/T 11910

GB/T 11912

GB/T 11914

GB/T 14204

GB/T 15432

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 732

HJ 733

HJ 734

/

28

39

' "% ' petroleum refining industry

' "& ' petroleum refining industry wastewater

' "" ' process wastewater

' "(' polluted rainwater

' ") ' alkaline wastewater

' "*" ' sour water

50 mg/L

100 mg/L

' "+ ' aromatic hydrocarbon wastewater

' ", ' wastewater collection and transportation system

' "- ' effluent volume

' "%\$ fl 七 effluent volume of per ton crude oil'

' "%% public wastewater treatment system

' " &\$ catalytic cracking gas

' " &% acid gas recovery unit

' " && air oxidation reactor

' " &' malfunction/upsets

' " &(stack height

' " &) standard condition
273.15 K 101325 Pa

' " &* existing facility

' " &+ new facility

' " & enterprise boundary

(

("% 2017 7 1 2017 7 1 1

("& 2015 7 1 1

%

mg/L pH

--	--	--	--

2		70	—	
3		60	—	
4		20	—	
5		8.0	—	
6		40	—	
7		1.0	—	
8		20	—	
9		5.0	20	
10			1.0	

11

3		50	—	
4		10	—	
5		5.0	—	
6		30		

Y — t
 Q — m^3/t
 ρ —

(

mg/m³

			(1)					(2)	
1		20	30						
2			0.3						
3		50	50		100				
4		100	100						
5					5 ⁽³⁾				
6				10					
7						10			
8	(a)					0.0003			
9							4		
10							15		
11							20		
12				30			120	97%	
1								2	
1									
2									
3									

)"%"(

3%

2

$$\rho = \frac{21 - O}{21 - O} \times \rho$$

2

ρ — mg/m³

O — %

O — %

ρ —			mg/m^3	
)" &				
)" &" %	2015	7	1	2017 7 1
)" &" &		76.6 kPa		
)" &" ' ' .		5.2 kPa	27.6 kPa	150 m ³
		27.6 kPa	76.6 kPa	75 m ³

a

b

c

3 4

)" &" (' .

15

)" &") ' .

6

1

)" ' ' .

)" ' ' " %

2015 7 1

2017 7 1

)" ' ' " &

a

b

c

d

e

f

g

h

)" ' ' " ' ' .

a

/

3

b

6

3 4

200 mm

10 mL

3

)" (" '·

)" (" *·

3 4

a

b

c

d

e

)" (" +·

a

b

c

1

)" (" ,·

)" (" -·

3 4

)" (" %\$·

15m

)")·

)")"%

1

5

)·

|

|

|

mg/m³

1

1.0

★

1	pH	pH	GB/T 6920
2			GB/T 11901
3			GB/T 11914
			HJ/T 399
			HJ/T 70
			HJ/T 132
4		化学需氧量	HJ 505
5			HJ/T 195
			HJ 535
			HJ 536
			HJ 537
			HJ 665
			HJ 666
6			HJ 636
			HJ 667
			HJ 668
7			GB/T 11893
			HJ 670
			HJ 671

8

			GB/T 7475
		65	HJ 700
17			GB/T 7485
			HJ 694
		65	HJ 700
18			GB/T 11910
			GB/T 11912
		65	HJ 700
19			GB/T 7469
			HJ 597
			HJ 694
20			GB/T 14204

*" " .

*" " %

GB/T 16157 HJ/T 397 HJ 732 HJ/T 373 HJ/T

75 HJ/T 76

HJ/T 55

*" " &

HJ 733

*" " .

7

+

			HJ 549
7			HJ/T 45
		flak	GB/T 15439
		flak	HJ/T 40