

HJ

HJ 580-2010

Technical Specifications for Oil-contained Wastewater Treating Process

2010-10-12

2011-01-01

	.....	11
1	.....	1
2	.....	1
3	.....	1
4	.....	2
5	.....	2
6	.....	3
7	.....	8
8	.....	8
9	.....	9
A	.....	11

2010 10 12

2011 1 1

1

2

GB8978

GB50014

GB/T16488

CJJ60-94

JB/T2932

13

3

3.1 oil and grease
()

3.2 oil wastewater

3.3 floating oil
100 μ m

3.4 dispersed oil
10 μ m 100 μ m

3.5 emulsified oil
10 μ m 0.1 μ m 2 μ m

3.6 dissolved oil

0.1 μ m

3.7 water adjusting and oil separation tank

3.8 oil separation tank

3.9 air floatation

3.10 coal escence of oil water

3.11 primary treatment of oil wastewater

3.12 secondary treatment of oil wastewater

4

4.1

4.1.1

(1)

$$Q = K \times q \times S \text{-----}(1)$$

Q --- m³/d

q --- m³/

S ---

K ---

4.2

4.2.1

4.2.2

4.2.3

5

5.1

5.1.1

5.1.2

5.1.3

5.1.4

30mg/L

5.1.5

5.1.6

GB50014

5.2

5.2.1

5.2.2

GB50014

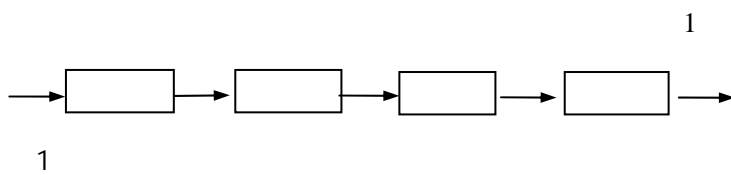
5.3

5.3.1

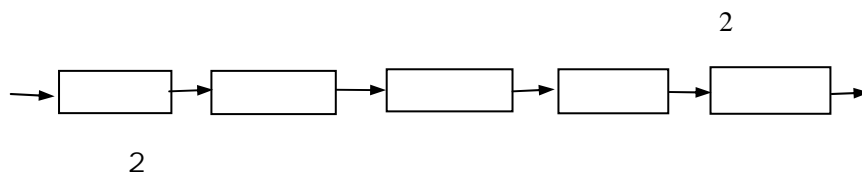
GB50014

5.4

5.4.1



5.4.2



6

6.1

6.1.1

150μ m

6.1.2

0.2m

6.1.3

0.5m

6.1.4

0.5m

0.8m

20

mm/s 50mm/s

6.1.5

2mm/s

5mm/s

6.1.6

6m

4

6.1.7

2m

0.4m

6.1.8

6.1.9 0.8m 0.5m 20
mm/s 50 mm/s

6.1.10 2m/min

6.1.11 200mm

6.1.12 0.5m 0.4m 45° 60°
0.01 0.02

6.1.13 200mm 300mm 4.5m 4

6.1.14

6.1.15

6.2

6.2.1 80μ m

6.2.2

0.2m

6.2.3 0.6m³/ m² h 0.8m³/ m² h

6.2.4 40mm 45° 3mm/s 7mm/s

Re 500 Fr 10

2

$$Re = \frac{v R}{\dots} \dots \dots \dots (2)$$

3

$$Fr = \frac{v^2}{Rg} \dots \dots \dots (3)$$

v — m/s

R — m

— m/s²

g — 9.81 m/s²

6.2.5

6.2.6

6.2.7 15mm/s

6.2.8 200mm

6.3

6.3.1
 I 0.05 μ m pH 6.5 8.5 100ng/L

6.3.2

6.3.2.1

6.3.2.2 0.3MPa 0.5MPa

6.3.2.3 5 10 25

6.3.2.4 1min 4min

6.3.2.5

6.3.2.6

6.3.3

6.3.3.1

6.3.3.2 10min 15min

6.3.3.3

6.3.3.4

6.3.4

6.3.4.1

6.3.4.2 4.5m 3 4

6.3.4.3 2.0m 2.5m 0.4m

6.3.4.4 1h

6.3.4.5 10mm/s

6.3.4.6

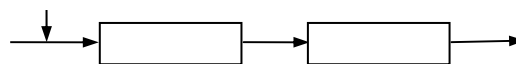
6.3.4.7

6.3.4.8 1r/min 5r/min

6.3.4.9

6.3.5

6.3.5.1 3



3

6.3.5.2 25ng/L 35ng/L

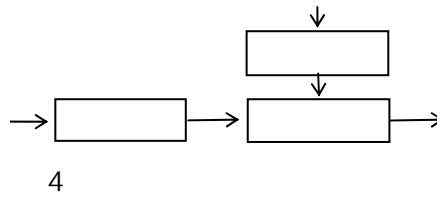
60ng/L 80ng/L 15ng/L 30ng/L 1ng/L 10ng/L

6.3.5.3

6.3.6

6.3.6.1

4



6.3.6.2

25 50

6.3.6.3

40 ng/L 60ng/L 10ng/L 20ng/L 15ng/L 25ng/L
 1ng/L 8ng/L

6.3.6.4

30s 0.3m 0.5m/s
 0.5m/s 1.0m/s 0.3m/s 0.5m/s 3min 10min

6.4

6.4.1

1µm 2µm 5µm 10µm

6.4.2

6.4.3

1 3mm 5mm

6.4.4

6.4.5

0.6MPa

6.4.6

1

1

	(mm)	(mm)
	16 32	100
	8 16	100
	4 8	100
H		300

6.4.7

1

16mm 32mm 0.3m

6.5

6.5.1

6.5.1.1

50m² 30ng/L

6.5.1.2

(40% 50%)

3.5m 4.5m

6.5.1.3				0.005
6.5.1.4				
6.5.1.5			400mm	
6.5.1.6				
6.5.1.7				25m ² 40mm
	25m ² 100m ²		50mm	
6.5.1.8		1 2		
6.5.1.9				
6.5.2				
6.5.2.1				
6.5.2.2		8m/h 10m/h		12L/m ² s 17L/m ² s
	15min			
6.5.3				
6.5.3.1		25m/h		5L/m ² s,
	15min 20min			
6.6				
6.6.1		pH		
6.6.2				
6.6.3				
6.6.3.1		10s 30s		
6.6.3.2				120m
6.6.3.3				
6.6.4				
6.6.4.1				
6.6.4.2				10min 30min
G	30s ⁻¹ 60s ⁻¹ , GT	10 ⁴ 10 ⁵		
6.6.5				
6.6.5.1				
6.6.5.2				
6.6.5.3				

() ,

6.6.5.4

6.7

6.7.1

6.7.2

6.7.3

30ng/L

6.7.4

6.8

6.8.1

8h 12h

6.8.2

GB50014

6.9

6.9.1

6.9.2

6.9.3

5 10

800 850

6.9.4

6.9.5

7

7.1

7.1.1

7.2

7.2.1

7.2.2

45

0.5M

7.3

7.3.1

7.3.2

7.3.3

8

8.1

8.1.1

8.1.2

8.1.3

8.1.4

8.2

8.2.1

8.2.2

9

9.1

9.1.1

9.1.2

CJJ60

9.1.3

9.2

9.2.1

9.2.2

9.2.3

9.2.4

9.3

9.3.1

9.3.2

5%

9.3.3

9.4

9.4.1

CJJ60

9.4.2

9.4.3

9.5

9.5.1

9.5.2

A

A.1

$$D = \sqrt{\frac{4Q_1}{q}} \dots\dots\dots (4)$$

D ————— m
 Q1 ————— m³
 q ————— m³/h · m² 15m³/h · m² 35m³/h · m²

A.2

$$W = f \cdot h \cdot \frac{D^2}{4} \dots\dots\dots (5)$$

W ————— m³
 h ————— m
 f —————

A.3

$$h = vt \dots\dots\dots (6)$$

h ————— m
 v ————— m/h
 t ————— h

A.4

$$G = W \cdot \dots\dots\dots (7)$$

G ————— kg
 ————— kg/m³