1

2

GB 6920 pH

GB 7469 -

GB 7470

GB 7471

GB 7475

GB 7484

GB 11893

GB 11901

GB 11906

GB 11907

GB 11910

GB 11911

GB 11912

GB 11914

GB/T 15432

GB/T 16157

HJ 487

HJ 488

HJ 489 3,5-Br2-PADAP

HJ 490 2B

HJ 537 -

HJ 538

HJ 543

HJ 544

HJ 547

HJ 548

HJ 549

HJ 550 5- -2- -1 3-

HJ 597

HJ/T 27

HJ/T 30

HJ/T 38

HJ/T 42

HJ/T 43

HJ/T 45

HJ/T 55

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 67

HJ/T 75

HJ/T 195

HJ/T 199

HJ/T 341

HJ/T 344

HJ/T 397

HJ/T 399

28

39

3

3.1 battery industry

3.2 paste-lined cell

3.3 alkaline zinc manganese battery

3.4 paper-lined cell

3.5 zinc air battery

3.6 silver zinc battery

3.7 button cell

3.8 lead acid battery

3.9 nickel cadmium battery

3.10 nickel-metal hydride battery

3.11 lithium cell

3.12 lithium ion battery

3.13 solar cell

3.14 silicon solar cell

3.15 amorphous silicon solar cell

3.16 exsiting facility

3.17 new facility

3.18 effluent volume

3.19 benchmark effluent volume per unit product

8		2.0	—	—	—	—		
9		2.0	—	—	—	—		
10		0.02	—	—	—	—	4	
11	[1]	0.5	—	—	—	—		
12		—	0.7	—	—	—		
13		—	0.05	0.1	—	—		
14		—	—	1.0	—	—		
15	[2]	—	—	—	0.1	—		
[3]	/ /				1.6 m^3/		4	
		/ / / /			1.0 m^3/			
		/			0.5 m^3/			
		+			0.25 m^3/kVAh			
					0.22 m^3/kVAh			
					0.03 m^3/kVAh			
	/				0.3 m^3/			
	/				1.0 m^3/			
			+		3.0 m^3/kW			
					1.5 m^3/kW			
					1.8 m^3/kW			
		[5]			0.3 m^3/kW			

1
2 /
3 R20 /
4
5

2

mg/L pH

		/ /		/	/			
1	pH	6~9	6~9	6~9	6~9	6~9	6~9	
2		70	70	70	70	70	150	
3		50	50	50	50	50	140	
4		0.5	0.5	0.5	0.5	0.5	2.0	
5		15	15	15	15	15	40	
6		10	10	10	10	10	30	
7	F	—	—	—	—	8.0		
8		1.5	—	—	—	—	4	
9		1.5	—	—	—	—		
10		0.005	—	—	—	—	4	

11	[1]	0.2	—	—	—	—		
12		—	0.5	—	—	—		
13		—	0.02	0.05	—	—		
14		—	—	0.5	—	—		
15	[2]	—	—	—	0.1	—		
[3]	/ /				1.3 m^3/		4	
		/ / / /			0.8 m^3/			
		/			0.4 m^3/			
		+			0.2 m^3/kVAh			
					0.18 m^3/kVAh			
					0.025 m^3/kVAh			
	/				0.25 m^3/			
	/				0.8 m^3/			
			+		2.5 m^3/kW			
					1.2 m^3/kW			
					1.5 m^3/kW			
		[5]			0.2 m^3/kW			
1 2 3 4 5 1								

4.1.4

3

3

mg/L pH

		/ /		/	/			
1	pH	6~9	6~9	6~9	6~9	6~9	6~9	
2		50	50	50	50	50	70	
3		10	10	10	10	10	50	
4		0.5	0.5	0.5	0.5	0.5	0.5	
5		15	15	15	15	15	15	
6		8	8	8	8	8	10	
7	F	—	—	—	—	2.0		
8		1.0	—	—	—	—	4	
9		1.0	—	—	—	—		

10		0.001	—	—	—	—	4	
11	[1]	0.1	—	—	—	—		
12		—	0.1	—	—	—		
13		—	0.01	0.01	—	—		
14		—	—	0.05	—	—		
15	[2]	—	—	—	0.1	—		
[3]					1.0 m^3/		4	
	/ /		/ / /		0.6 m^3/			
		/			0.3 m^3/			
		+			0.15 m^3/kVAh			
					0.13 m^3/kVAh			
					0.02 m^3/kVAh			
	/				0.2 m^3/			
	/				0.6 m^3/			
			+		2.0 m^3/kW			
					1.0 m^3/kW			
					1.2 m^3/kW			
		[5]			0.15 m^3/kW			
1 2 3 4 5 1								

4.1.5

1

1

$$\rho \quad \frac{Q}{\sum Y_i \bullet Q_i} \times \rho \qquad 1$$

ρ —— mg/L

Q —— m^3

Y_i—— t

Q_i —— m^3/t

ρ —— mg/L

$$Q \quad \sum Y_i \bullet Q_i \qquad 1$$

4.2

4.2.1 2014 7 1 2015 12 31 4

4.2.2 2016 1 1 5

4.2.3 2014 3 1 5

4

mg/m^3

/ / / /

5.1.4

5.1.5

5.2

7

7

1	pH	pH	GB 6920
2			GB 11914
			HJ/T 399
3			GB 11901
4			GB 11893
5			HJ/T 199
			GB/T 11894
6			HJ/T 195
		-	HJ 537
7			GB 7484
			HJ 487
			HJ 488
8			GB 7475
9			GB 11906
			GB 11911
			HJ/T 344
10			HJ 597
		-	GB 7469
			HJ/T 341
11			GB 11907
		3,5-Br2-PADAP	HJ 489
		2B	HJ 490
12			GB 7470
			GB 7475
13			GB 7471
			GB 7475
14			GB 11910
			GB 11912
15		5- -2- -1 3-	HJ 550

5.3

5.3.1 GB/T 16157 HJ/T397 HJ/T 75

5.3.2 HJ/T 55

5.3.3 8

8

1			HJ 544
2			HJ 538
		( )	HJ 539
			GB/T 15264
3			HJ 543
		-	HJ 542
4			HJ/T 64.1
			HJ/T 64.2
		-	HJ/T 64.3
5			HJ/T 63.1
			HJ/T 63.2
		-	HJ/T 63.3
6			HJ/T 45
7			HJ/T 67
			HJ 481
			HJ 480
8			HJ/T 27
			HJ 548
			HJ 549
9			HJ/T 30
			HJ 547
10			HJ/T 42
			HJ/T 43
			HJ 479
11			GB/T 16157
			GB/T 15432
12			HJ/T 38

6

6.1

6.2