




: 12 2000 , Vol.35, No.6, : < >		(Occupational Safety and Health Administration) , 0.1ppm(parts per million) 8 , , 0.3ppm 15	
	0.2mg/L (揮散)		
			0.12ppm/ ' , 0.3ppm/ ' , 0.5ppm/
1.			
			가 가
(靜置)	가		, 가
		가	
가	(Na ₂ S ₂ O ₃)	가	2 가
	가		가



가 (1).


2.

1.

가

1 ,

가



1.

(, .)

CaS₂O₃, Na₂S₂O₃, NaHSO₃, SO₂

(H₂O₂)

pH OH (radical)

가

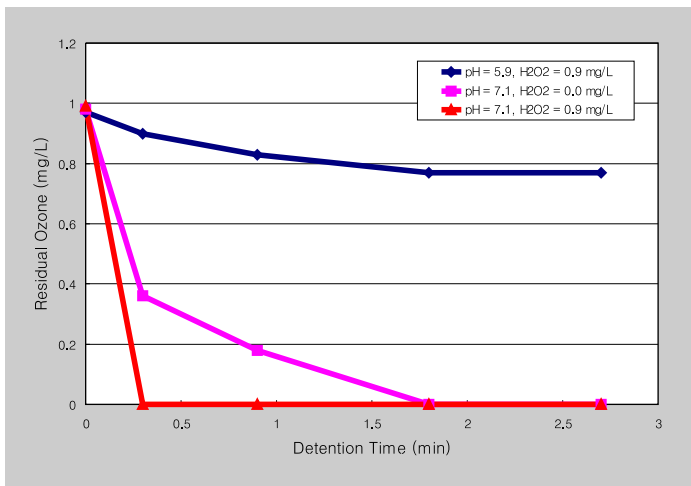
2

가 ,

OH



가
 , OH 가 . pH 5.9
 pH 2 pH 가
 . pH가 , pH 7.1
 가



2. pH

(Milwaukee Ozone Facilities, USA)

2 . pH 7.5,
 8 ,
 22 ,
 18.3

가
 (Test 4) 0.37mg/L

가 (Test 1, 2, 3)

Detention Time(min)	(mg/L)			
	Test 1 (H ₂ O ₂ Dosage :0.8 mg/L) (Reaction Time :105sec)	Test 2 (H ₂ O ₂ Dosage :0.9 mg/L) (Reaction Time :105sec)	Test 3 (H ₂ O ₂ Dosage :0.9 mg/L) (Reaction Time :175sec)	Test 4 (H ₂ O ₂ Dosage :0.0 mg/L) (Reaction Time :175sec)
1.8	1.13	1.38	1.04	1.04
9.2	0.84	1.09	0.73	0.73
18.3	0.60	0.68	0.48	0.48
22.0	-	-	-	0.40
Effluent	0.00	0.01	0.00	0.37

: Robert A. Hulsey, Gary S. Logsdon, Holly S. Shorney, Bruce W. Long, Ozone residuals-What to do at the end of the contactor, WQTC conference proceedings, Florida, 1999
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