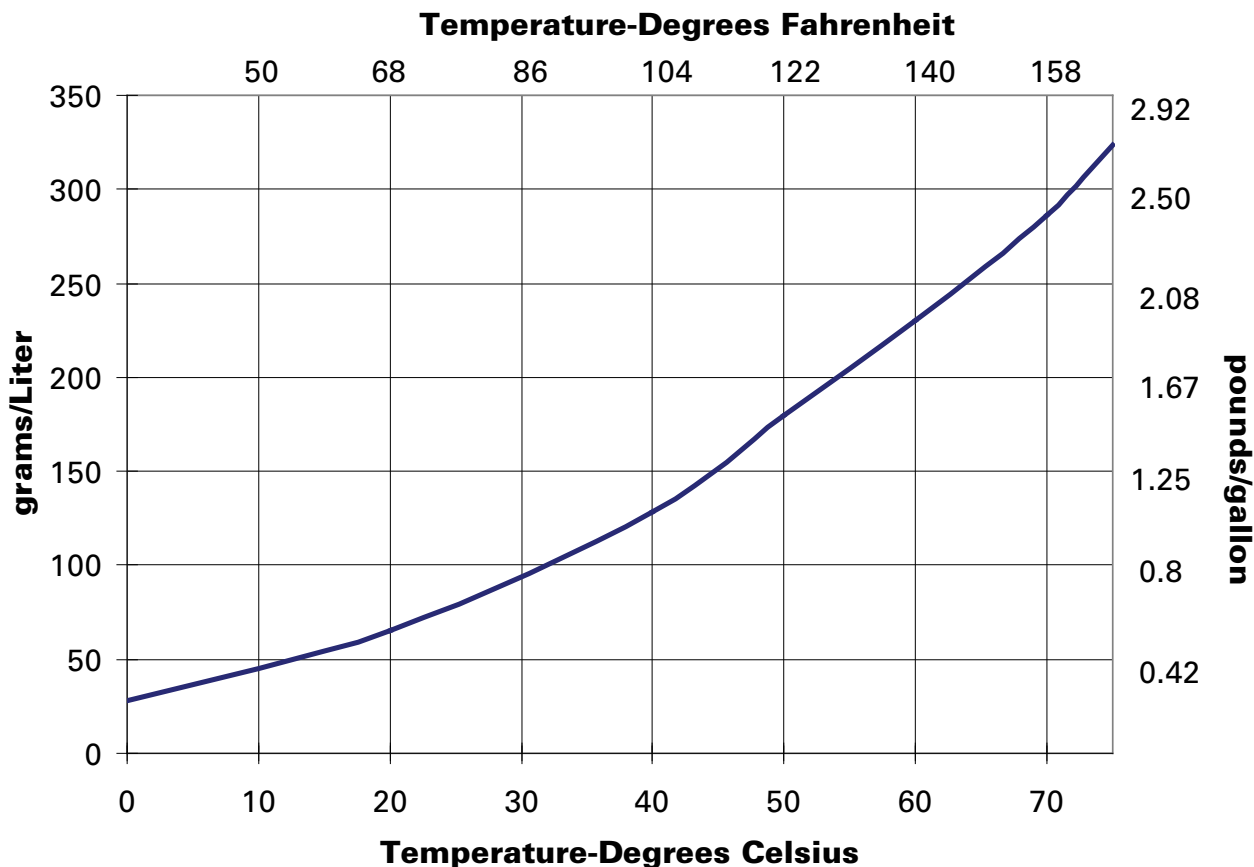




## TECHNICAL SUMMARY



## SOLUBILITY IN DISTILLED WATER

Temperature		Solubility	
°C	°F	g/L	wt oz/gal
0	32	27.8	3.7
20	68	65.0	8.6
40	104	125.2	16.7
60	140	230.0	30.7
70	158	286.4	38.3
75	167	323.5	43.2

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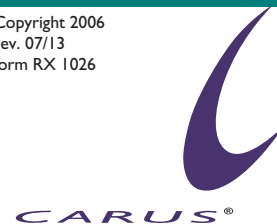
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#### FACTORS FOR SOLUTION FEED RATES

KMnO <sub>4</sub> % Solution	Lbs/gal	Oz/gal	Grams/gal	mL/min needed 100 gpm	= 1 ppm
0.5	0.04	0.64	18.9	75.7	
1.0	0.08	1.28	37.8	37.8	
1.5	0.13	2.08	56.8	25.2	
2.0	0.17	2.72	75.7	18.9	
2.5	0.21	3.36	94.6	15.1	
3.0	0.25	4.00	113.6	12.6	
3.5	0.29	4.64	132.5	10.8	
4.0	0.33	5.28	151.4	9.5	
4.5	0.38	6.08	170.3	8.4	
5.0	0.42	6.72	189.2	7.6	

For example: To make up a 4% RemOx® ISCO reagent solution, 1/3 pound of RemOx S would be added per gallon of water. This solution should be agitated vigorously for 15 to 20 minutes to ensure dissolution. Agitation with a mixer at 750-1000 rpm is recommended. Always follow the safety procedures outlined in the MSDS for RemOx S. To feed 1 ppm of a 4% solution the pump should be set at 9.5 mL/min for every 100 gpm flow.

#### FACTORS FOR DRY FEED RATES

For 1000 gpm

ppm KMnO <sub>4</sub>	Grams/min	Lb/hr
0.5	1.89	0.25
1.0	3.78	0.5
1.5	5.67	0.75
2.0	7.56	1.00
2.5	9.45	1.25
3.0	11.34	1.50
4.0	15.12	2.00
5.0	18.90	2.50

For 100 gpm

ppm KMnO <sub>4</sub>	Grams/min	Lb/hr
5	1.89	0.25
10	3.78	0.5
25	9.45	1.25
50	18.90	2.50
100	37.80	5.00
200	75.60	10.00
500	189.00	25.00