

# TRAMFLOC, INC.

*Water & Wastewater Treatment Equipment & Chemicals for Industry, Municipality & Mines*

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## POLYMER TESING DOSAGE CHART

ml. of polymer solution to be added to 1000 ml. sample

### % Solution Concentration

<u>PPM</u>	<u>0.05</u>	<u>0.1</u>	<u>0.25</u>	<u>0.5</u>	<u>1.0</u>
0.1	0.2	0.1	0.04	0.02	0.01
0.2	0.4	0.2	0.08	0.04	0.02
0.5	1	0.5	0.2	0.10	0.05
1	2	1	0.4	0.2	0.1
2	4	2	0.8	0.4	0.2
5	10	5	2	1	0.5
10	20	10	4	2	1
20	40	20	8	4	2
50	100	50	20	10	5
100	200	100	40	20	10
200	400	200	80	40	20
500	1000	500	200	100	50
1000	2000	1000	400	200	100

## SLUDGE DEWATERING CALCULATIONS

$$1.) \text{ ppm polymer} = \frac{\text{ml. polymer solution} \times \% \text{ polymer} \times 10^6}{\text{ml. sample}}$$

$$\text{or ml. polymer} = \frac{\text{ppm polymer} \times \text{ml. sample}}{\% \text{ polymer} \times 10^6}$$

$$2.) \frac{\text{lbs. polymer}}{\text{DT}} = \frac{\text{ml. polymer solution} \times \% \text{ polymer} \times 2000}{\text{ml. sample} \times \% \text{ solids}}$$

$$\text{or ml. polymer} = \frac{\text{lbs./DT} \times \text{ml. sample} \times \% \text{ solids}}{\% \text{ polymer} \times 2000}$$

$$\text{PPM} = 500 \times \text{LBS./DT}$$

NOTE: All the above assumes the specific gravity/density of both polymer solution and sludge sample are the same or close enough. For real accurate results, rework and apply these differences in your calculator.