

Useful Formulas for Chlorine Addition

Feeding Gas Chlorine (lbs/day)

$$\text{Dosage (mg/L)} = \frac{\text{lb / day}}{\text{MGD} \cdot 8.34 \text{ lb / gal}}$$

Feeding Sodium Hypochlorite

$$\text{Gallons/day} = \frac{\text{Volume, MGD} \cdot \text{concentration, mg / L} \cdot 8.34 \text{ lb / gal}}{\text{lb / gal}}$$

Examples:

The chlorine dosage rate at a water treatment plant is 3 mg/L. The flow rate of the plant is 1 MGD (694 gpm). How many pounds per day of chlorine are required?

$$\text{Mg/L} \times \text{MGD} \times 8.34 \text{ lb/gal} = \text{lb/day}$$

$$3 \text{ mg/L} \times 1 \text{ MGD} \times 8.34 = 25.02 \text{ lb/day}$$

Inyo Process offers a complete line of chemical diffusers and injection quills suitable for chlorine and sodium hypochlorite addition.



For more information go to <http://www.inyoprocess.com> for information on chlorine and many other commonly used water treatment chemicals including coagulants and concentrated acid.