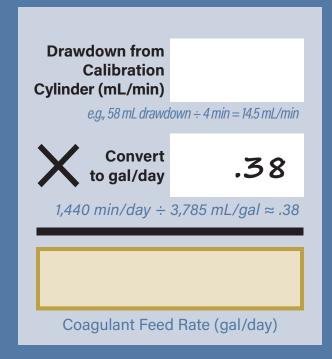
Calculating Chemical Dose

Liquid Alum Fed Neat (Undiluted) From Calibration Cylinder Drawdown



Using This Poster

Start by measuring the specific gravity of the delivered alum using a hydrometer. Enter the value (center). Next, fill in the coagulant strength from the product data sheet. Then, using a stopwatch and calibration cyclinder, measure the chemical feed pump rate (below). Fill in the numbers and use a calculator to find the current values for each of the colored boxes. Finally, plug those values into the equation at the bottom and use a calculator to determine the current dose.



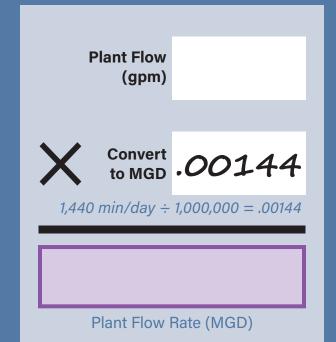




Abbreviationsgpm: gallons per minutelb: poundsL: liters

mg: milligrams
MG: million gallons
MGD: million gallons per day
mL: milliliters (1/10000 liter)

specific gravity



Dose
$$\left(\frac{\text{mg}}{\text{L}}\right) = \frac{\text{Coagulant Feed Rate }\left(\frac{\text{gal}}{\text{day}}\right) \times \text{Coagulant Concentration }\left(\frac{\text{lb}}{\text{gal}}\right)}{\text{Plant Flow Rate (MGD)} \times 8.34 \left(\frac{\text{lb}}{\text{gal}}\right)}$$

