

**FLORIDA WATER PROCESSING
POLYMER BLEND SIZING**

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Sludge Dewatering Application

Step 1. _____ GPM sludge X 8.3 lbs./gal. - _____ lbs/min. sludge.
 _____ lbs./min. sludge X _____ % solids (concentration) = _____ lbs./min. dry solids.
 _____ lbs./min. dry solids X 60 min./hr. = _____ lbs./hr. dry solids.
 _____ $\frac{\text{lbs./hr. dry solids}}{2000 \text{ lbs./ton.}}$ = _____ tons/hr. dry solids.

- OR -

_____ tons/day dry solids = _____ tons/hr. dry solids.

Step 2. _____ tons/hr. dry solids X _____ lbs. polymer/dry ton (*typically 15 -30*) = _____ lbs. neat polymer/hr.
 _____ $\frac{\text{lbs. neat polymer/hr.}}{8.75 \text{ lbs./gal.}}$ _____ GPH active polymer(100%).

To calculate NEAT polymer use see table below.

Example: 1 gallon of 100% active polymer = 3 gallons of neat emulsion polymer

Example: $\frac{1 \text{ GPH neat polymer}}{.005 \text{ (0.5\% solution)}}$ = 200 GPH dilution water

$\frac{\text{GPH neat polymer}}{\% \text{ solution desired (decimal)}} = \text{_____ GPH dilution water}$

Dilution – [0.1% to 1.0% solution is typical.]

Clarifying/Filtration Application

_____ MGD plant flow X _____ PPM neat polymer = _____ GPD 100% polymer.
 _____ $\frac{\text{GPD neat polymer}}{24 \text{ hrs./day}}$ = _____ GPH neat polymer.
 _____ $\frac{\text{GPH neat polymer}}{\% \text{ solution desired}}$ = _____ GPH dilution water.

Characteristics of Neat Polymers

TYPE	% ACTIVE	OTHER INGREDIENTS
Dry	100	None
Emulsion	25 – 35	Oil, water
Dispersion	50 – 75	Oil
Mannich	3 - 8	Water

Max. Dilution Water (GPH)

Max. Polymer Feed (GPH)

NEPTUNE MODEL: PA/PM- _____ w/ _____