

Sludge Dewatering Polymer Dosage Calculations

LBS/DT =

$$\frac{(2000)(\text{mls dilute poly added})(\text{poly \% diln})(\text{SG of dilute poly})}{(\text{mls of substrate tested})(\text{substrate \% solids})(\text{SG of substrate})}$$

- Usually refers to pounds of as received polymer added per dry ton of feed substrate
- SG of dilute polymer solutions is usually <1.02 and can thus be ignored
- SG of substrate can vary
- Biological sludges usually have SG's similar to water
- Oily wastes can have SG's higher or lower than water
- Mineral substrates usually have SG's higher than water

Sludge Dewatering Polymer Dosage Calculations

LBS/DT =

$$\frac{(2000)(\text{gpm dilute poly added})(\text{poly \% diln})(\text{SG of dilute poly})}{(\text{gpm of substrate tested})(\text{substrate \% solids})(\text{SG of substrate})}$$

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Sludge Dewatering Polymer Dosage Calculations

LBS/DT =

$$\frac{(2000)(\text{gal dilute poly added})(\text{poly \% diln})(\text{SG of dilute poly})}{(\text{gal of substrate tested})(\text{substrate \% solids})(\text{SG of substrate})}$$

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- SG of dilute polymer solutions is usually <1.02 and can thus be ignored
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Sludge Dewatering Polymer Dosage Calculations

LBS/DT =

$$\frac{(2000)(\text{cubic feet/min dilute poly added})(\text{poly \% diln})(\text{SG of dilute poly})}{(\text{cubic feet/min of substrate tested})(\text{substrate \% solids})(\text{SG of substrate})}$$

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- SG of dilute polymer solutions is usually <1.02 and can thus be ignored
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