LBS/Dry Ton 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
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\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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LBS/Dry Ton Calculations

LBS/DT =

\[
(2000) \text{(cubic feet/min of dilute poly added)} \times \text{(poly % diln)} \times \text{(SG of dilute poly)}
\]

\[
\div \text{(cubic feet/min of substrate tested)} \times \text{(substrate % solids)} \times \text{(SG of substrate)}
\]

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