

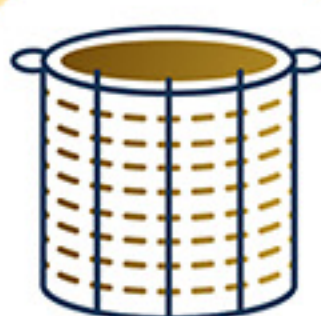
Diatomaceous Earth Guidelines

WHY WE RECOMMEND PRE-COATING?



INCREASE POROSITY & FILTER AREA:

Improves flow and maintains filter area from cycle to cycle.



IMPROVE MICRON RETENTION:

Enhances the filter's ability to capture micron and sub micron particles.



EXTENDS MEDIA LIFE:

Reduces wear and tear on substrate.



IMPROVE CAKE DISCHARGE:

Makes the removal of filter cake more efficient.

PRE-COAT GUIDELINES



FOLLOW PRE-COAT PROCEDURE:

Adhere to recommended steps and dosages for best results.

Dosage: .2 lbs of DE per 1 ft² results in an average cake depth of 1/8".



CLEAN LIQUOR:

Add DE to clean liquor to avoid fouling the filter media.



RECIRCULATE:

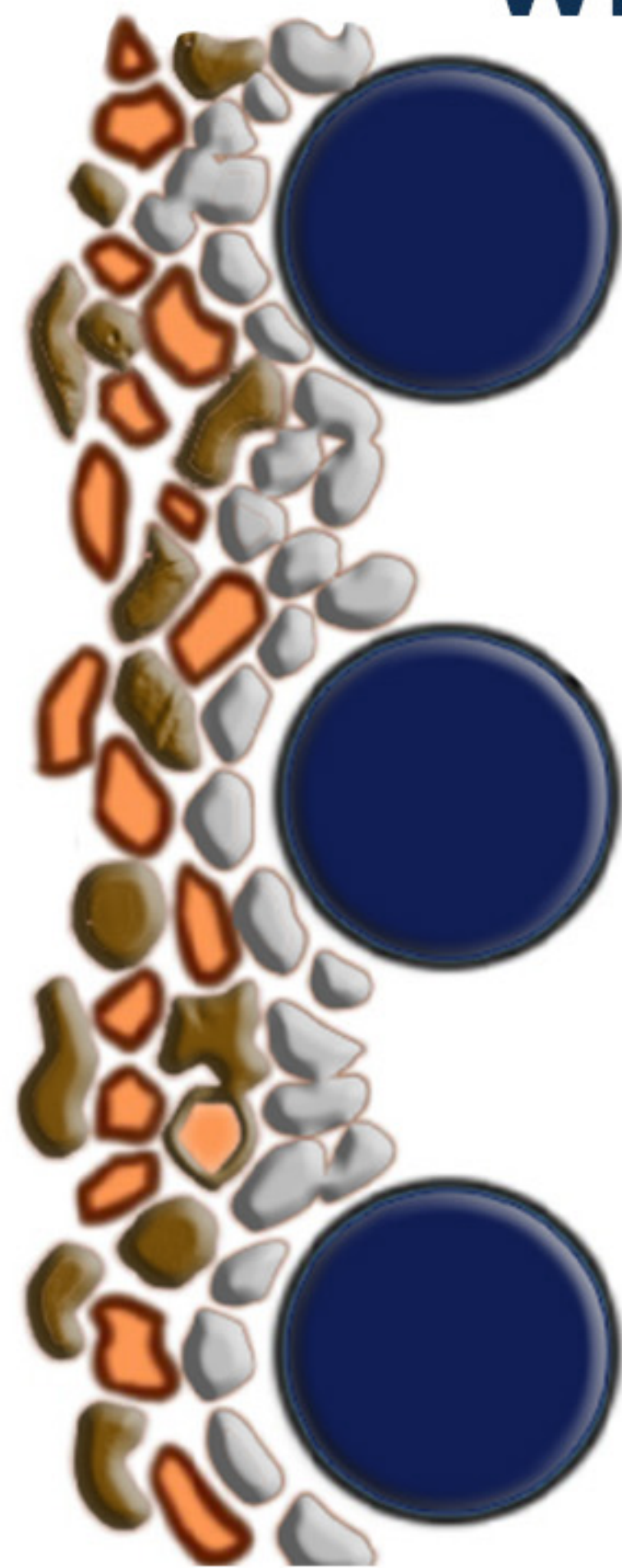
For water, a pre-coat flux rate greater than 1 gpm/ft² is recommended. Recirculate until clarity.



ENSURE PRE-COAT STABILITY:

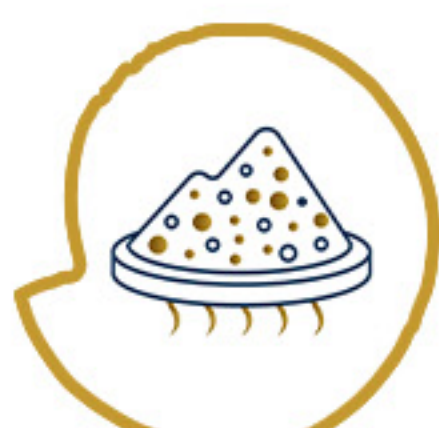
Maintain forward flow when transitioning from pre-coat cycle to filtration cycle on vertical plates.

WHY WE RECOMMEND BODY FEED?



Increase Cycle Time:

Improves flow and maintains permeability for extended cycle times.



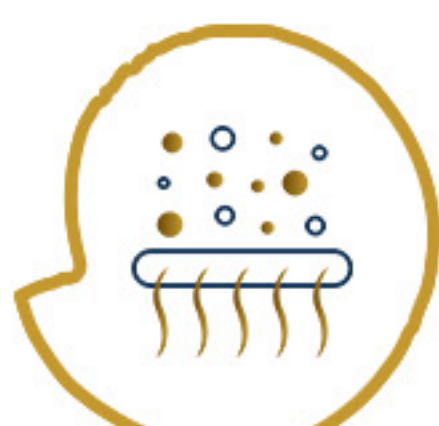
Decrease Resistance:

Decreases resistance of solids to run at lower differential pressures.



Improve Cake Discharge:

Reduces friction between filter media and filter cake.



Improves Clarity:

Increases micron retention.

BODY FEED GUIDELINES

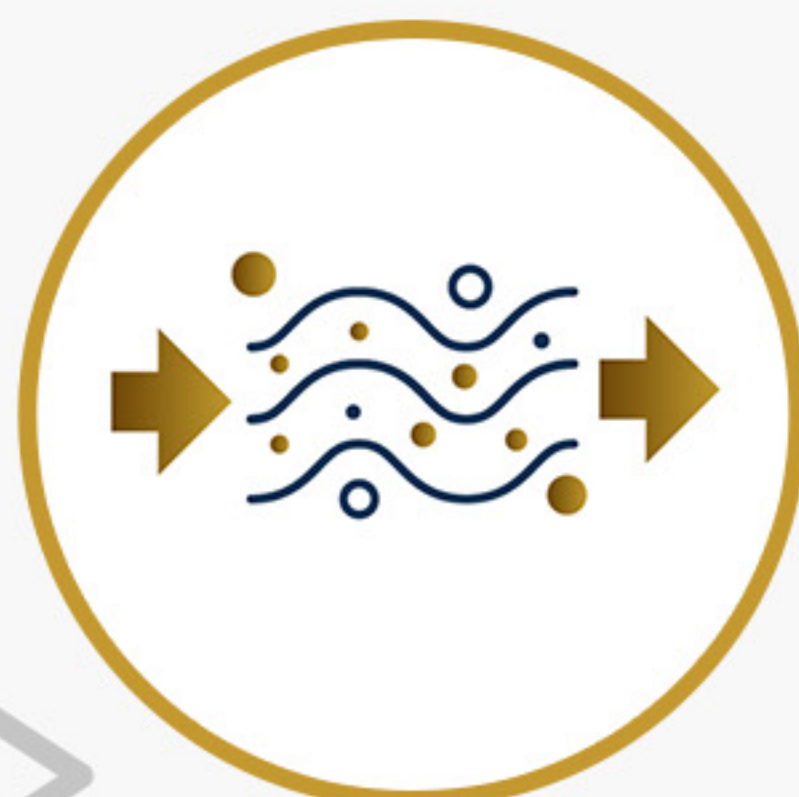


Start with a 1:1 Ratio by Volume:

Begin with an equal volume of DE to the solids.

Dosage:

Approximately 17 lbs of DE per ft³ of solids.



Mixed and Agitated in source tank or dose injected into feed stream



Flux Rate:

Maintain flux rate consistent with filter equipment design parameters and manufacturer's recommendations.