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## Perc Booster

### Code: Pboost

Perc Booster is an AA stabilizer package, specially blended for use with OxyChem's vapor degreasing Perchloroethylene. During use, vapor degreasing solvents are subjected to numerous environmental stresses which can lead to solvent breakdown and acidic conditions. Stabilizers are added to vapor degreasing grades of chlorinated solvents to neutralize acidic conditions and allow the solvent to continue to function properly. In low emission degreasing systems, stabilizers are depleted faster than they are replenished by the addition of fresh solvent. Perc Booster AA stabilizer for can be used to restabilize the solvent in these systems.

### Acid Acceptance Adjustment for Perchloroethylene Solvent

Using the information from the Acid Acceptance Test, and the volume of solvent in the degreaser system, find the appropriate amount of Perc Booster AA stabilizer for the solvent to add to the system.

Perc Booster should be added to the solvent reservoir so that it is quickly mixed into the solvent and will be rapidly distributed throughout the system.

After making the addition, allow the solvent to mix throughout the system, then retest the acid acceptance levels.

### Acid Acceptance Levels

The optimal operating range for acid acceptance values of Perchloroethylene should be between 0.10 and 0.30.

Perc Booster stabilizer has been specially designed for acid acceptance adjustments of Perchloroethylene.

Acid Acceptance	Test Result	Action Required	Test Frequency Recommended
Acceptable	Greater than .08 acid acceptance value	Continue normal operations	Test 1 to 2 times per week
Marginal	Acid Acceptance value between .04 and .08	Add Booster for acid acceptance	Test daily until corrected
Unacceptable	Less than .04 acid acceptance value	Add Booster for acid acceptance or change out solvent	Test daily until corrected

Perc Booster Addition chart	
Desired increase in Wt. % NaOH	Gallons Conversion Factor
0.200	0.0147
0.175	0.0129
0.150	0.0110
0.125	0.00919
0.100	0.00735
0.075	0.00551
0.050	0.00368
0.025	0.00184

- Determine the acid acceptance of the solvent using the Acid Acceptance Test Kit.
- Determine the volume of solvent in the degreaser system.
- 7.35 gal of Perc Booster per 1000 gal of perchloroethylene will raise the Acid Acceptance by 0.1% by wt% NaOH.
- **For example, if you are operating a 125 gallon vapor degreaser and you obtain an acid acceptance test result of .05% acid acceptance value.**
- **(Desired acid acceptance value 0.15) – (actual acid acceptance value of .05) = 0.1(desired increase in Acid Acceptance)**  
**(Gallons of solvent in the degreaser system) X (0.00735) = 0.9187 gal. Perc Boost**
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