

## BlendTech Blending Procedure

**Date:** August 1, 2013

**Document Description:** *Blending Procedure for BTFFCA (any dye color)EG Concentrate*

**Formulation:** @60°F

	<b>Relative Density</b>	<b>% by Volume</b>	<b>10,000 Gallon Blend Gal</b>
	<b>mg/L</b>		
1. Ethylene Glycol	1.1155	97.80	4890
2. BTFFCA	1.3100	2.20	110
<b>Coolant Total:</b>	1.1198	100.00	
			9900*

### **Blend Procedure:**

1. Temperature of Water, EG and Inhibitor should be at least 60° F. Assure that the Inhibitor has been mixed until homogenous. Fluids should be combined gradually while the batch is being agitated. If EG is measured by volume, take into account the changes of density at different temperatures. Maintain good mixing.
2. Adjust pH of EG to 9.0 by adding sodium hydroxide or potassium hydroxide.
3. Slowly pump in proper amount of BTFFCA blending syrup into the tank.  
Note: Drummed BTFFCA must be stored @ 60°F or above. Should BTFFCA crystallize in the drum due to low temperature storage, heat the drum to 80°F - 90°F, and mix thoroughly until crystals completely redissolve.
4. Mix further for at least one hour. Check for proper pH (10 to 10.75). Adjust as required.

\*Total gallons do not add to 10,000 because volume shrinks when different liquids are mixed together.

### Quality Control Limits

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**Product:** *BTFFCA EG Concentrate*

<b>Tests:</b>	<b>ASTM</b>	<b>Spec Limit</b>
Specific Gravity, 60°F	D-1122	1.114 - 1.128
pH	D-1287	10.0 - 10.8
Freeze Point	D-3321	-37°C max.
Nitrites	D-5827	2,400 ppm