Blend Tech Blending Procedure
BT EG HTF

Date: *4/12/22*

Document Description: *Blending Procedure for BT EG HTF (any dye color) EG 50/50 Premix*

Formulation: *@60°F*

	Relative Density	**% by Volume**	**10,000 Gallon Blend**
	mg/L		**Gal**
1. Ethylene Glycol	1.1155	47.5	4750
2. Demineralized Water	1.0000	50.0	5000
3. BT EG HTF	1.3100	2.5(combined %, see below)	250
Coolant Total:	1.0716 nominal	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 to 9.0-9.5 using sodium hydroxide or potassium hydroxide.

3. Slowly add in proper amount of demineralized water. Mix thoroughly.

4. Slowly add the specified amount of BT EG HTF Part 1 (2.375% by volume) blending syrup into the tank. Next, blend the solution well prior to adding Part 2 (0.125% by Volume). After mixing Part 1 and the EG-water well, slowly add Part 2 to the mixture and repeat mixing until well blended. Note: Drummed BTEGHTF must be stored @ 60°F or above. Should BTEGHTF crystallize in the drum due to low temperature storage, heat the drum to 80°C - 90°F, and mix thoroughly until crystals completely redissolve.

5. Mix further for at least one hour. Check for proper pH (9.5 to 10.8). Adjust as required.

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

Quality Control Limits

Date: *4/12/22*

Product: **BT EG HTF** *EG 50/50 Premix*

Tests:	**ASTM**	**Spec Limit**

Specific Gravity, 60°F	D-1122	1.060 – 1.080
pH	D-1287	9.5 - 10.8
Freeze Point	D-3321	-37°C (-34°F) max.

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Blend Tech, Inc.
3064 Silver Sage Dr Ste 150
Carson City, NV 89701-6099
714.334.8867