

**BlendTech Blending Procedure**

**Date:** August 2014

**Document Description:** *Blending Procedure for Aqueous Solutions of Ethylene Glycol with Blend Tech **BTHOAT** Hybrid Antifreeze Additive Concentrate.*

**Blend Procedure @68°F:**

1. Check base fluid for pH 8.0 to 9.5. Adjust as required.
2. Establish good mixing. Slowly add proper amount of BTHOAT syrup into the base fluid. Use the table below to calculate the volume or weight required.
3. Mix further for at least one hour.

Weight % EG	Volume % EG	Relative Density @ 20C	Mass of 100 gallons (lb/100 Gal)	V% BTHOAT (Gallons/100 Gal Base)	V% BTHOAT (Pounds /100 Gal Base)
Ready to Use					
0.0	0.0	1.0000	834.5	2.250	2.250
10.0	9.0	1.0108	843.6	2.250	2.226
25.0	22.9	1.0289	858.6	2.250	2.187
30.0	27.6	1.0347	863.5	2.250	2.175
35.0	32.7	1.0404	868.3	2.250	2.163
40.0	37.7	1.0462	873.1	2.250	2.151
50.0	47.7	1.0578	882.7	2.250	2.127
52.2	50.0	1.0578	882.7	2.250	2.127
55.0	52.8	1.0635	887.6	2.250	2.116
60.0	57.8	1.0693	892.4	2.250	2.104
65.0	62.5	1.0751	897.2	2.250	2.093
Antifreeze Concentrates					
70.0	68.2	1.0809	902.0	4.500	4.254
100.0	100.0	1.1155	930.9	4.500	4.254

**Typical Analysis of BTHOAT Syrup**

Property:	ASTM Method	Typical Value
Relative Density	D1122	1.18
pH @ 50% in DI Water	D1287	10.2 - 10.8

Note: Drummed HOAT must be stored @ 60°F or above. Should HOAT crystallize in the drum due to low temperature storage, heat the drum to 80°F - 90°F, and mix thoroughly until crystals completely dissolve.