

BlendTech Blending Procedure

Date: November 17, 2010

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

Formulation: @60°F

	Relative Density	% By Volume	10,000 Gallon Blend Gal
	mg/L		
1. Ethylene Glycol	1.1155	97.80	9780
2. BTUCA	1.2950	2.20	220
Total:	1.1194	100	9900*

Blend Procedure:

1. Determine temperature of EG in storage tank. 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 using sodium hydroxide or potassium hydroxide.
3. Slowly pump in proper amount of BTUCA blending syrup into the tank.
Note: Drummed BTUCA must be stored @ 60°F or above. Should BTUCA 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: *BTUCA EG Concentrate*

Tests:	ASTM	Spec Limit
Specific Gravity, 60°F	D-1122	1.114 - 1.128
pH	D-1287	10.0 - 10.8
Freeze Point	D-3321	-37°C max.
Nitrite	D-5827	1400 ppm