

ArrTekk[®] 1295

Soap Solution Production Guidelines

Soap Production With Anionic Styrene-Butadiene Rubber (SBR) Latex

1. Add water to solution vessel. The water should be well above the mixer level and heated to a temperature of 40°C or higher. Begin mixing the water in the vessel and continually maintain mixing until soap is ready for emulsion production.
2. Heat the ArrTekk 1295 to a temperature of 35 - 70°C and add to the vessel. Continue mixing until the solution is homogeneous.*
3. Add the latex to the vessel. Continue mixing until homogeneous.
4. Begin to SLOWLY add hydrochloric acid until target pH has been achieved. **
5. Add remaining water, if applicable. Verify pH and adjust if necessary with hydrochloric acid to target pH.

Soap Production With Cationic SBR Latex

1. Add water to solution vessel. The water should be well above the mixer level and heated to a temperature of 40°C or higher. Begin mixing the water in the vessel and continually maintain mixing until soap is ready for emulsion production.
2. Add an amount of hydrochloric acid that is equal to approximately 50% of the weight of ArrTekk 1295 to be used.
3. Heat the ArrTekk 1295 to a temperature of 35 - 70°C and add to the vessel. Continue mixing until the solution is homogeneous.*
4. Add the latex to the vessel. Continue mixing until homogeneous.
5. Add hydrochloric acid until target pH has been achieved.
6. Add remaining water, if applicable. Verify pH and adjust if necessary with hydrochloric acid to target pH.

Soap Production Without Latex

1. Add water to solution vessel. The water should be well above the mixer level and heated to a temperature of 40°C or higher. Begin mixing the water in the vessel and continually maintain mixing until soap is ready for emulsion production.
2. Heat the ArrTekk 1295 to a temperature of 35 - 70°C and add to the vessel. Continue mixing until the solution is homogeneous.
3. Add hydrochloric acid until target pH has been achieved.*
4. Add remaining water, if applicable. Verify pH and adjust if necessary with hydrochloric acid to target pH.

*Properly reacted ArrTekk 1295 is clear and light straw in color.

**It is advisable to pour a small amount of the solution over a No. 20 mesh (840- μ m) sieve screen after the acid has been added and the target pH is achieved. If latex is retained on the screen, slow the rate of acid addition.

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