

The Solution Is Crystal Clear



Situation

An automotive glass manufacturer was suffering from an increasing number of costly product rejects. Their research division identified the cause of the rejects as dissolved solids found in the water supplying the cleaning and rinse washers. Because these rejects were not identified until the final quality check in the manufacturing process, the cost to the company in time, material, and ultimately profit was tremendous.

Action

AWS worked with the research division to provide deionizer exchange tanks for pilot testing. Testing proved the researchers initial theory. Once the researchers knew that the high purity water solved the problem, they next determined where the quality cut-off point would be on the tanks. Resistivity monitors were provided to show the quality of the tanks throughout the run cycle. Further testing determined that the tanks would be exchanged when the quality of deionized water dropped below 12 megohms. The research division then tasked AWS to scale up the pilot system for each of the washer systems at the manufacturing facility.

Resolve

Larger 20 cu.ft. deionizer exchange tanks and associated pre and post treatment were installed on 5 different washer lines. The systems were capable of meeting their 50 gpm flow rates and provided deionized water with quality rating above their 12 megohms cut-off point. The rejects due to spotting and poor lamination were virtually eliminated. The associated cost in time and material were dramatically reduced and profits soared.

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