



## Case Study: Aquaease® PL

# Solving White Haze on

## The Challenge

A well-known manufacturer of sound reduction products for the firearms industry was having trouble with a white haze that was appearing on certain stainless steel parts after vapor degreasing. The company was using an ultrasonic vapor degreaser with a fluorinated solvent to clean the parts, but some of the parts were machined with an oil-based cutting fluid, while others were made with a water-based cutting fluid. The water-based cutting fluid was causing the haze effect, which created an issue because the parts needed to subsequently be welded and could have no residue on them. Unfortunately, the degreasing equipment manufacturer could only point to the solvent recommended for use, but they were unable to come up with a satisfactory solution to eliminate the haze.

## The Approach

Hubbard-Hall's team began by taking a closer look at the cleaning system, and also requested the SDS on water based cutting lubricant to analyze its content. Team also sent parts to their Inman, South Carolina, lab to be tested and analyzed further. The lab examined parts in smaller quantities (between 10 and 20 pieces), and discussed with the manufacturer the operation of the ultrasonic vapor degreaser machine to make sure it was working to specifications.

(continues on the other side)



## Cleaning

Solutions

