

CASE STUDY - Chematic[®] 570 CLEANING BLOOD FRACTIONATION RESIDUES



CLEANING ALBUMIN, 25% BUMINATE & CRYO PRECIPITATE WITH NON-CHLORINATED CLEANING AGENT

CLEANING WITH EXISTING METHOD

It is common for blood fractionation equipment cleaning programs to include chlorine-based cleaning agents.

The concern of the stainless steel developing pitting, rouging and premature gasket failure led this customer to evaluate alternative cleaning agents for its equipment in a new building.

The site expected cleaning with a non-chlorinated cleaning agent to achieve the same results as their current chlorinated detergent at temperatures of 40°C – 45°C. Commonly used highly alkaline cleaning agents were evaluated and failed to clean the Albumin, 25% Buminate & Cryo precipitate leaving behind residue and staining on the stainless steel surfaces.

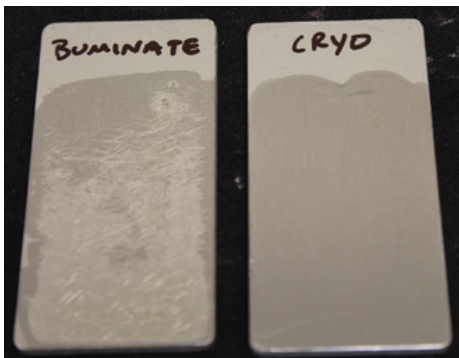
CHEMATIC[®] SOLUTIONS & RESULTS

Dober evaluated the comparative cleaning of custom-developed Chematic[®] 570 along with other alkaline cleaners.

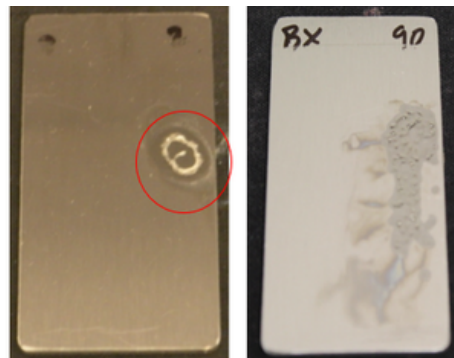
The results of the comparative studies showed cleaning was achievable at 40°C – 45°C with 1% - 2% Chematic[®] 570.

Failure was observed with the non-customized highly alkaline cleaner, even with the change in temperature and concentration.

The results of the cleaning evaluation provided the customer with an option to have a non-chlorinated cleaning agent. The Chematic 570 was chosen for implementation due to its cleaning abilities, and the reduced risk of pitting & rouging of the site's new assets.



SOILED COUPONS



RESULT WITH ALKALINE CLEANER



CLEANING WITH CHEMATIC[®]

CHEMATIC[®] CLEANER ADVANTAGE

Cleaning achieved with customized Non-Chlorinated detergent

Equipment safety due to reduced risk of pitting or rouging

Decrease in cleaning water consumption by reducing cleaning steps

Lower cleaning temperatures = Lower energy usage