

**Exelerate™ TUFSOIL** generates over \$789,000 in savings by removing heavy burnt-on grease and fat residue in sausage ovens.



## SITUATION

A facility was having issues removing heavy burnt-on grease and fat inside their sausage ovens. The customer was completing a hot water rinse for 120 minutes prior to their CIP process, totaling to 3.5 hours each night for their ovens. Despite the extended hot water rinse and CIP, the customer was frequently not able to successfully remove the heavy fat and grease residue. Additionally, the USDA was not approving the start-up of these ovens and often required re-cleans and resulted in delayed start times due to the burned-on residue.

## SOLUTION

An Ecolab associate set up a trial with the customer to test the performance of Exelerate TUFSOIL on the burnt-on residue. The operator completed a 20-minute hot water pre-rinse with water and booster pump. Then TUFSOIL was applied using a 2-gallon pump sprayer with a dwell time of 20-30 minutes, then began CIP using 25 gallons of Conquest (Quorum Brown replacement) and 45 lbs of CD-10. The entire process took about 2.5 hours.

## RESULTS

After only the first trial, an estimated **95% of the build up was removed** from the piping, catch pans, and chain belts with little to no burn-on left behind. The results only improved with further usage.

**Through continued use, all burn-on residue is eliminated during each wash.** This process shortened the nightly cleaning time by one hour, directly resulting in additional production time. Including reduced re-cleans, the plant saved 520 hours, and the customer was also able to stop using CD-10 for cleaning the ovens as there was no need after using TUFSOIL prior to its CIP process.

## CONCLUSION

By using Exelerate TUFSOIL prior to CIP the customer was able to remove burnt-on fat and grease residues. This process shortened the cleaning times and eliminated re-cleans due to burn-on residue, resulting in productivity savings of \$780,000 and cutting water usage by 2.6 million gallons.

## CUSTOMER IMPACT

### PRODUCTIVITY

**520 HOURS**

*Production time gained*

**\$789,000**

*Savings generated through productivity*

### SUSTAINABILITY

**2.6M GALLONS**

*Water conserved*

**\$9,724**

*Water costs saved annually*

