

Technical Bulletin

Acid Gel: An ally for removing even the most stubborn soil buildup from fruit and vegetable processing in your plants

Fruit and vegetable processing plants have always struggled with a major problem: removing the extremely stubborn deposits that build up on equipment. Removing this buildup with traditional cleaning methods is nearly impossible. It's not uncommon to see buildup that's several years old in some plants.

Even large amounts of conventional products and hours of scrubbing can't get rid of the buildup. Some processors, out of desperation, have recourse to dry ice blasting.

WHY DO WE PUT SO MUCH EFFORT AND RESOURCES INTO ELIMINATING THIS BUILDUP?

Accumulated deposits tend to clog equipment and hinder its performance. They also cause premature breakage. Worse, they create the ideal conditions for pathogens and harmful microorganisms to develop – putting your bottom line and reputation at risk. Colossal damage can be done in just a matter of days. Leaving buildup on equipment is therefore not an option.

WHY IS THIS BUILDUP SO HARD TO REMOVE?

Our research has shown that the composition of these deposits can vary greatly depending on the type of product and processing being done. This composition includes a complex mix of contaminants. A multitude of mineral (iron, copper, zinc, oxalates, etc.) and organic (lipids, proteins, pigments, etc.) contaminants have been seen forming a complex heterogeneous mixture.

This mixture creates an armour that protects this grime against conventional products. Alkaline or chlorinated alkaline cleaners can't achieve the desired results on organic deposits because the mineral residues tend to form a protective surface barrier that reduces the effectiveness of these products.

Similarly, conventional acid cleaners don't work well either because the organic compounds prevent the minerals from being dissolved.

HOW CAN YOU GET OPERATIONS BACK UNDER CONTROL?

Our researchers worked on this issue and have come up with a product that finally resolves this troublesome buildup problem. Acid Gel completely eliminates the stubborn residue that has accumulated on equipment over the years, letting you regain control of operations with minimal effort.

Some of the advantages of Acid Gel:

- Produces unbeatable results – significantly outperforms traditional techniques
- Reduces labour – requires much less effort to achieve much better results
- Greatly lowers the risk of contamination – cleaner surfaces mean fewer contaminants
- Significantly slows down future buildup – since all buildup has been removed, surfaces stay cleaner longer, making routine cleaning easier





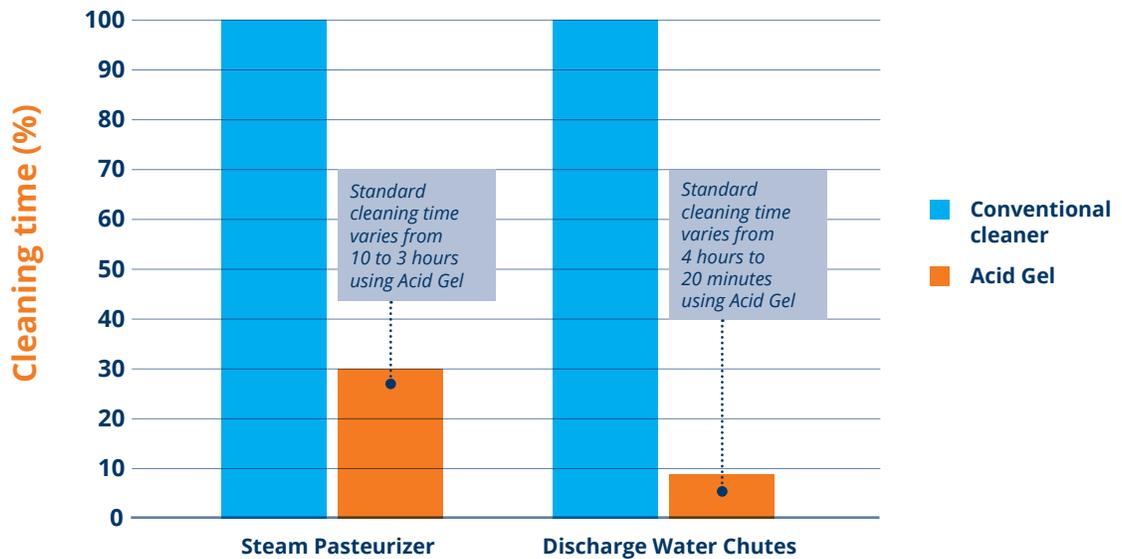
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Acid Gel is ideal for occasional use as a shock treatment to remove heavy sap buildup. Our tests show that a good initial treatment can completely remove stubborn buildup. However, conventional cleaners are recommended for daily cleaning. An occasional treatment with Acid Gel will easily eliminate any accumulations that cannot be removed with your regular products, letting you stay on top of your plant's safety.

Is this product suitable for your operations? Contact a representative to learn more.

Wondering just how effective Acid Gel is? See for yourself how much time you can save!

Cleaning time based on product used



Instead of 10 hours, it took only 3 hours to clean this steam pasteurizer with Acid Gel.

Acid Gel removed 100% of the residue - compared to only 75% with the traditional method.

Because surfaces remain cleaner longer with Acid Gel, the frequency of shock treatments has also fallen - from every 4 weeks to every 6 weeks.



BEFORE

AFTER

Acid Gel was used to clean this buildup of carrots, beets and turnips. Instead of the usual 4 hours it takes with the traditional treatment, Acid Gel took only 20 minutes - and did a much better job.