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Rust Removing Remedies

We started this project since rust is a big problem in farming communities. Our goal was to find an efficient and cost effective way to remove rust. We first found two industrial, name brand removers to compare to home made removers. Also, we found an acid that is not specifically designed for removing rust. We took white vinegar as one solution, coke as another, and 10% peroxide as the last home remedy. The two industrial removers we compared them to were Rust Oleum and Rust Eater. We tested all the solutions on 1 inch pipe each 4 inches long. We sat them all in cut off milk cartons to test them and let them submerge for a few days each. After a few days we removed the pipes from the solution and scrubbed them dry with a paper towel. From our series of experiments it is clear to see that the vinegar worked surprisingly better than the rest of the solutions. It was closely followed by the hydrochloric acid. The two industrial removers came in third to last and last. We have concluded that your best was to remove rust is to either use white vinegar by itself or hydrochloric acid.