

Revolutionizing Plastic Decontamination: A Green Chemical for Enhanced Cleaning

FerSol's green oxidant-based detergent cleans plastics at low temperature, enabling high-quality recycling with less energy and chemicals.

Goal

Global plastic recycling is hindered by ineffective decontamination. Traditional processes require high heat and large chemical volumes to tackle odors and biofilms, making them energy-intensive and costly. We propose implementing FerSol, a proprietary oxidant-based detergent, to disrupt this paradigm. Proven in initial tests to wash at ambient temperature with far less chemical, FerSol significantly lowers energy use and costs. Early results are highly promising, demonstrating lower odor in r-PO flakes and less yellowing in PET. While further development is ongoing, this technology represents a breakthrough in producing higher-quality recycled polymer more sustainably.

What is FerSol?

FerSol is a powerful oxidant-based detergent from Ferr-Tech, uniquely formulated with iron(VI). This advanced chemistry allows it to efficiently break down challenging organic soils like fats, proteins, and food residues at ambient temperature. This stands in direct contrast to conventional alkaline detergents used in Polymer Recycling Plants (PRPs), which require high temperatures to achieve a similar effect. By working effectively without heat, FerSol offers a more energy-efficient and cost-effective solution for critical tasks, such as washing plastic and removing tough biofilms.

How can we collaborate?

Join us in advancing the future of industrial cleaning with FerSol. We seek strategic partnerships:

- For Plastic Recyclers:** Provide a trial at your plant to experience FerSol's energy-saving, ambient-temperature efficiency.
- For Industrial Partners:** Help us scale this innovative technology and expand into new markets.
- For Scientists & Researchers:** Partner with us in research projects to pioneer new applications for iron(VI) chemistry.

Let's build a more efficient and sustainable solution together.

