

CASE STUDY

CHEMETALL

Chemetall provides Polyblend® Polymer Activation System and Saves Their Customer 35% in Polymer Consumption

cleanwater¹



OVERVIEW

Chemetall of New Providence, NJ, is a global company focused on providing Surface Treatment chemistries in a variety of industrial sectors. With a long history of developing, manufacturing, and supplying state-of-the-art specialty chemical products since 1909, the ISO 9001:2008 certified company offers a wide spectrum of products and systems to meet customer needs. Chemetall's integrated approach often involves supplying process consulting and equipment to help ensure their chemistry has the optimal impact on their customer performance and success.

Ladd Ojala, Chemetall Technical Sales Manager, was working with a leading manufacturer of heavy off-road equipment to lower operating costs through reducing polymer consumption. Suspecting a less-than-optimal polymer activation configuration at the site, Ladd contacted UGSI Chemical Feed, Inc. – Cleanwater¹ the manufacturer of Polyblend® polymer mixing systems for assistance. Based on consultation with UGSI Chemical Feed, it was agreed that a demonstration Polyblend® unit could be provided so the client could operate and experience the savings firsthand. Ladd commented, "the ability to implement a quick solution, risk free for our client was critical to maintain this account" and added, "UGSI Chemical Feed responded quickly, and we were able to realize results immediately".

The Polyblend® PB series liquid polymer preparation system offers a unique two-stage method which utilizes initial high-shear mixing at the time of initial polymer contact to prevent agglomerations – commonly known as "fish-eyes". The polymer solution then passes through a baffle into a low-shear zone to allow the polymer chain to hydrate, elongate and expose a maximum of desired charge sites. This two-stage mechanical mixing of the emulsion polymer ensures optimal polymer activation thereby lowering the amount of polymer that needs to be fed in a process – creating savings



The compact and affordable Polyblend® PB features completely automatic operation and a sophisticated two-zone polymer activation chamber

“We provided a Polyblend® PB100 demonstration unit at no charge and saved our customer 35% in polymer. We purchased the unit within a week of our free 30-day demo period.”

Ladd Ojala, Technical Sales Manager, Chemetall

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