

Case Study: Trimethoxy(methyl)silane Filtration April 2012- June 2013

Update: Fourteen months after installing OEI's High Pressure Scrubber Momentive is very happy. There have been no pump failures and required maintenance intervals have been extended.



Photo A



Photo B

Momentive Performance SRL Termoli, Italy

APPLICATION: Circulation Pump

PROBLEM: Premature failure of the pumps and seals due to excessive ferrous metal contamination as a result of erosion and corrosion of the piping caused by the dangerous process fluid Trimethoxy(methyl)silane (CAS number 1185-55-3).

SOLUTION: Alex Priori of Renox, the OEI distributor in Italy, suggested the installation of a special high pressure OEI Scrubber prior to the circulation pump on the suction side to filter out the fine ferrous metal contamination that was causing premature failure of the pumps and seals.

RESULTS: Photos A & B show a substantial amount of ferrous metal contamination captured by the OEI magnetic filter rod after approximately 4 months in operation. In the past 14 months there have been no pump failures and maintenance intervals have been extended reducing contact with the Trimethoxy(methyl)silane when replacing failed pumps.

Momentive Engineer, Pasquale Marcantonio is very satisfied with the results of the OEI high pressure scrubber and will be installing others throughout this and their other chemical plants in the near future.

RECOMMENDATION: Install OEI magnetic filters to reduce pump wear, supply a cleaner product and opportunities for injury by reduced contact with dangerous chemicals. This filter also allows for predictive maintenance planning. For more information, contact our office at 877-888-8727 or visit our website at www.oneeyeindustries.com