

SOLVAY POLYMERS, Sarralbe, France – cleaning LDPE

Located in the beautiful Saar River Valley, this high end producer of LDPE and Polypropylene sought an answer to their problems with Customer complaints arising from high levels of streamers and fines in their finished goods packaging and loading operation.



In this view, the tallest silos are used for gravity truck loading. As this is the culmination of much pneumatic conveying system, the pellets contain a high level of streamers and fines. The original system included an Elutriator at a transfer station in the pipeline filling the silos. Although it did a fair job of fines removal, very few streamers were removed.

In order to remove the streamers, they installed a vibrating conveyor below the silo discharge, which was equipped with a screen section to “scalp” off the streamers while filling the Trucks. This improved the problem, but still they had too many complaints.

SOLUTION:

The decision was made to install a PELLETRON CORPORATION P600 gravity DeDuster™ below the silo discharge, and above the vibrating conveyor. Headroom was at a premium, but the P600, (25 MTPH) with only 60 inches of height, fit nicely with room too spare.

This installation removed more than 99% of the streamers and fines, resulting in the grateful acceptance of high quality resin by their many Customers, without another complaint.

A few years later, they decided to expand their operation and construct an up to date logistics packaging and shipping facility. They selected Katoen Natie for the engineering, construction, and management of the new facility. Recalling the earlier problems with the Truck loading system, it was decided to include a P800, (35 MTPH) DeDuster™ at one of the new truck loading stations.