

## *Pleated bags are NOT the same as Cartridges...It's All In The Design!*

Case in Point – Sly, Incorporated's TubeJet® dust collectors equipped with Pleated Filter Bags installed at Novamet Specialty Products in Wyckoff, NJ. "The Sly collectors equipped with pleated bags are performing far better on this process than the old dust collectors," says Warren Storms, Maintenance Manager at Novamet.

Novamet manufactures precision-engineered nickel powder, metallic flake, coated materials and nickel oxides for a variety of industries and applications. The need to process these materials efficiently is of the utmost importance. Dust collection is a necessary step in the process, and recovering valuable product from the dust collector is paramount.



One of six Sly TubeJet collectors utilizing pleated bags at Novamet.

Previous cartridge collectors and bag filter collectors were problematic. "The cartridge collectors and bag collectors were messy to change out and there was a lot of maintenance associated with these units," adds Storms. "We were changing the main filters every year, and discarding valuable product which could not be released from the filters. Some of the collectors vented through a roof stack so we had to stay current with air quality permits."

Sly representative Joe Caccamese of Cino Equipment consulted with Sly and recommended Sly's TubeJet dust collector with pleated bags to replace the cartridge collector. "At first, Novamet did not even want to consider the pleated bag option because they thought the design was similar to the previous cartridge collectors," said Caccamese. But limited head room inside the building made pleated bags the only option to avoid a side removal collector with confined entry to replace bags.



Sly's custom HEPA housing transition allowing safe recirculation of the filtered plant air.

Moving forward with the Sly pleated bag designs turned out to be a wise decision. Novamet ended up purchasing six Sly TubeJet collectors. Sly also provided custom HEPA housing transitions which allowed Novamet to mount HEPA filters directly on the vertical discharge of the fans, and safely recirculate the filtered plant air, providing additional savings on their utilities bill. The first Sly TubeJet collector went on line at Novamet in 2006 and all six are still operating with the original set of filters. The Sly collectors never reach the differential pressure set point of 5" w.g. for pulse cleaning so they are pulse-cleaned only once per month for product recovery of the valuable metals. Storms adds, "We have seen big savings from the Sly dust collectors due to the heat recovery, low maintenance, and longevity of the filters. We are very happy with the Sly dust collectors."