



PALMETTO
INDUSTRIES

CASE STUDY

"Palmetto was able to come in and analyze our production process and provide solutions that we hadn't thought of before."

Brad M.

INTERNAL LINER LEADS TO SAVINGS AND MORE EFFICIENT WORKFLOW.

Industry

Mineral Manufacturing

Location

Midwest

Services

Custom mineral solutions across many industries.

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THE SITUATION

While working with a mineral company, they explained their product was moisture sensitive, so to protect their bagged product they were using a polyethylene (PE) outer bag covering as a secondary step.

Our client uses a kiln fired process that dries their media at approximately 250 degrees Fahrenheit. By the time the minerals reach the bag, the average temperature of the product can be 180 to 190 degrees depending on environmental conditions.

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This product needs to be maintained in a dry state to prevent clumping, yet they must be stored outside due to space restrictions. When adding the expense of the outer bag and time of the required labor, we knew there had to be a better way to achieve the same results.

THE SOLUTION

We reviewed their operational steps, evaluated the temperatures involved, the equipment being utilized, the operator's involvement, and the way the finished product was stored and transported. After assembling the data, we determined that moving the liner from the outside to the inside was the best option but we had to overcome the temperature challenge.

When dealing with liners, it is not as simple as taking a PE bag and placing it inside a polypropylene (PP) bag. We had to determine the type of material best suited to withstand the temperatures involved. Standard Low-Grade PE would begin to melt within the temperature ranges we were faced with. We could have used a Medium-Grade PE liner or even a PP Liner for greater heat and moisture protection. Once we determined the material, we had to decide if the liner would be standard tube, tapered tube, form fit or Cube. Our final challenge was to determine if we should attach the liner to the bag by using tape, gluing, or sewing it in.

SUMMARY

We ended up providing a bag that had a form fit PP tube liner that was sewn in and eliminated the extra expense and labor involved with the external application. While the internal liner did increase the price of the standard bag, we were able to save them more than \$3.00 per bag in actual costs plus the added savings of time. Once again, taking time to listen to our customer's needs and to think "outside the box" allowed us to offer solutions to everyday problems.

THE BENEFITS

- **Time Efficiencies**
Eliminated the time and effort of applying the outer bag to the main bag.
- **Lower Cost**
While the cost of the single bag itself went up, we were able to save this customer around \$3 per bag overall by eliminating the need for the outer bag.

