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Case Study

Optimizing a Complex Powder Formulation



How Pharma Tech Industries put their deep expertise in manufacturing and filling of powders to ensure consistency for a customer's consumer product

Background

As a trusted CDMO partner for leading global brands, Pharma Tech Industries' powder processing expertise and proactive problem-solving skills help assure customers that even complicated, stubborn formulation issues can be overcome. This was precisely the case with a recent powder filling project for a customer's product.

Challenges

Pharma Tech Industries encountered a significant challenge involving weight variations caused by inconsistencies in powder density of the customer's formula. This issue not only impacted product filling consistencies but could potentially impact label claims. Variations in powder density led to inconsistent flow and fill levels during blending and filling trials, resulting in bottles which failed to meet required weight specifications. This was a critical problem, as the integrity and reliability of the final product could be compromised.

Pharma Tech Industries' Solution

Leveraging its advanced knowledge in powder behavior and broad familiarity in diverse powder formulations, the Pharma Tech Industries team quickly identified the root cause of the issue. By analyzing the relationship between particle size, shape, and bulk density, Pharma Tech Industries developed a tailored blending and filling solution for the product to optimize the flowability and consistency of the powder.

By recommending precise adjustments in formulation to the customer, the resolution ensured that the powders exhibited predictable behavior during the filling process, eliminating weight variations and optimizing production efficiency to increase yield. Pharma Tech Industries also recommended implementing customized controls on excipient acceptance criteria to help prevent similar issues from arising in the future.



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Conclusion

This capability underscores Pharma Tech Industries' commitment to providing worry-free solutions for its contract manufacturing and packaging customers. The company's broad familiarity and expertise in complex powder formulations allows its customers to have robust products delivered to the highest levels of service and quality.

Pharma Tech Industries is a trusted solutions provider for powder-based products and custom services, offering development to high-volume commercial scale production services across a wide variety of delivery formats and systems.