

Avoid electrostatic risks related to the use of big bags with the type BL₃TM big bag from SO BAG



Issues

The handling of powders in ATEX zones can be dangerous by the accumulation of electrostatic charges that can cause a spark and ignite powders packaged in big bags.

The type BL₃TM big bag from SO BAG has been developed for powder packaging

- in an ATEX 21-22 environment
- minimum Ignition Energy greater than 3 mJ



The implemented solution

The type BL₃TM big bag from SO BAG combines an insulating liner with a type B big bag. This **innovative and efficient solution** complies with IEC 61340 4-4 electrostatic classification of Large Flexible Bulk Containers.

Technically, the research and development work has been focused on the microperforation of the liner surface which makes it possible to lower the clacking potential and **prevents the accumulation of electrostatic charges**.

The **solution proposed by SO BAG** is therefore a **simple and economical alternative to conductive or dissipative big bags** (type C or D) commonly used to ensure the safety of factories in the face of explosive risks related to the handling of powders.



The advantages: simplicity + safety + reliability + economy

The type BL₃TM big bag helps to improve the yield of production lines

- no need to put the big bag to the ground => optimized operators time
- stability of electrostatic properties => durable solution over time
- more economical materials than conductive or dissipative materials that require very expensive additives to maintain their electrostatic properties over time
- food safety => no risk of migration of antistatic or carbon additives
- improved stability, in-line stacking possible, increased filling rates.



1 proven solution

The type BL₃TM big bag from SO BAG is a **patented technical solution** in 2015 in co-ownership with the group which has already proven itself with **300,000 type BL₃TM big bags already in service**.



The added value of SO BAG

Technical expertise

- **electrostatic hazard control** in connection with the TÜV SÜD Process Safety, a recognized player in the analysis of industrial risks. The development was carried out in accordance with IEC 61340 4-4
- **definition of the correct level of microperforation** : numerous tests were carried out to obtain the correct geometry

microperforations = design, density, dimensions.
We can adapt the design of the microperforations in function of the dangerousness of the product and optimize the sealing.

Prototype production and **on-site support** teams using big bags.



71450 Blanzay • France
www.sobagfrance.com