



ALFABS



Technical Bulletin 106 – 13-11-14

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Bat Bag Calculation

This Technical Bulletin has been issued to inform the consumers of the Alfabs Bat Bags that some users have misinterpreted the examples outlined in the Alfabs Bat Bag Recommendations.

Event

Alfabs Mining have recently been notified on separate occasions from two clients on the following. After weighing of the Alfabs Bat Bags onsite that some bat bags were 5.50kg and believed in turn for the possibility of an explosion barrier to be outside required recommendations. The Alfabs Bat Bag design has a structural integrity that allows it to contain 5kg – 6kg ($\pm 5\%$) of stone dust for its lifetime. Exceeding 6kg of stone dust in the Bat Bag may result in possible structural failure of the bag and possible inefficiency of the explosion barrier. Alfabs Mining have an automatic filling station that is set to fill the bags with 6kg ($\pm 2.5\%$) of stone dust with the operator ensuring that all bags do not fall below the minimum of 5.85kg and that overall each box will average 6kg per bag.

Alfabs Mining have taken this measurement of stone dust from the initial testing completed by and detailed in the ACARP Report C7030 Page 11.

See below extract.

Each of the distributed barriers consisted of a number of rows of the bags and hooks holding between 5 and 6kg of stone dust. Rows of bags were grouped to form 4 sub-

Further investigation has shown that some consumers have utilised the examples outlined in the Alfabs Bat Bag Recommendations to develop their stone dust explosion barriers. Please note these calculations are examples only and do not fully outline any further possible situations that will require additional Bat Bag loading.

Completed Actions

Alfabs Mining have revised all examples in the Alfabs Bat Bag Recommendations to reflect the use of a minimum Bat Bag weight of 5.85kg to prevent any further misinterpretations.

Recommendations

Alfabs Mining recommended the end user to review Alfabs Bat Bag Recommendations & the bat bag loading calculations utilised being mindful that Bat Bags contain a minimum of 5.85kg.

For any questions or queries please contact your Alfabs Representative.

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