



CREATING TOMORROW'S SOLUTIONS

Wacker Chemie AG
81737 München
Germany

Emergency Telephone Numbers:
+49 8677 83-2222 (D)
+1 800 424-9300 (CHEMTREC,USA)
+49 621 60-43333 (Int.)



4057697



SAFETY INFORMATION ON HDK® BIG BAGS AND ELECTROSTATIC CHARGES

With HDK®, safety comes first. That is why WACKER offers its pyrogenic silica in different types of FIBC or Big Bags: types A and B for use in non-explosive areas, and type C for areas where explosive gases and dust may occur. This is to prevent ignition hazards from electrostatic discharges, which may occur due to friction when emptying the Big Bags.

This leaflet will provide you with valuable information on different Big Bags and safe zones for emptying Big Bags.

Big Bag Types A, B and C

	Types A and B	Type C
Structure	Two layers, non-conductive	Two layers, conductive
Emptying area	Ex-free zone	Gas zones 1-2/dust zones 21-22
Handling	Need not be grounded	Must be grounded
Emptying time	Approx. 12 mins	Approx. 12 mins

PYROGENIC SILICA | SAFE PACKAGING

BIG BAG TYPES A, B AND C

Handling HDK® Safely in Hazard Zones

Big Bag types A and B are made of non-conductive materials such as polypropylene. Depending on the product they contain, electrostatic charging may occur when filling and emptying the bags, resulting in brush discharges or sparks. This is extremely dangerous in explosion-hazard zones.

A type C Big Bag is made using non-conductive fabrics interwoven with a grid of conductive threads. A grounding point is provided on the bag to ground it and thereby safely dispose of accumulated static charges. These bags are suitable for use in industries where the ambient air is likely to contain explosive particles.

Safety Precautions

Keep in mind that the process of inter-connecting and grounding type C Big Bags is prone to inadvertent human error.

- Make sure bags are grounded before use
- Damaged bags must not be used
- Make sure you classify your hazard zones correctly

Maximum safety is only possible if the loading area for Big Bags is located in a non-hazard zone.



Explosion Hazard Zones

It is inefficient to classify the entire site as an explosion-hazard zone. Instead, apply the correct classification of the explosion hazard zones depending on the emission concentration.

- Zone 0 = in mixer/container
- Zone 1 = approx. 1–2 m around the mixer
- Zone 2 = approx. 2–4 m around the mixer

Where possible, installation of the Big Bag emptying unit in a non-hazard zone is recommended. The emptying unit, the entire conveying system, as well as all downstream equipment must be properly grounded. For more information visit: www.wacker.com/hdk

Dimensions of WACKER Big Bags

	Inner measurements in mm
Length	1100
Width	1100
Height	2000
Filling spout diameter	300
Filling spout length	500
Outlet spout diameter	350
Outlet spout length	700
Lifting loops	450 + 200

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 München, Germany, Tel. +49 89 6279-1471, Fax +49 89 6279-1770, info@wacker.com, www.wacker.com/hdk, www.wacker.com/socialmedia



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