

FIBC types	
FIBC Type A	No protection against electrostatic discharge, Insulating, No grounding path Possible ignition sources: Brush-, Propagating brush- and Cone discharges
FIBC Type B	Insulating, No grounding path, BUT: breakdown voltage of the fabric > 6kV Possible ignition sources: Brush- and Cone discharges, No propagating brush discharges
FIBC Type C	To be grounded during filling and discharging to safely dissipate static electricity. Type C's have an interconnected grid of conductive threads and grounding tabs. Resistance to ground <10 Ohm.
FIBC Type D	Static charges are dissipated by the corona effect, and grounding of the FIBC is not necessary. Type D's have antistatic fabric with permanent dissipative threads.

Use of the different types of FIBC			
Bulk Product in FIBC	Surroundings		
MIE of dust^a	Non flammable atmosphere	Dust Zones 21-22^b (1 000 mJ > MIE > 3mJ)	Gas Zones 1-2^b (Explosion Groups IIA/IIB)^b or Dust Zones 21-22^b (MIE ≤ 3 mJ)^a
MIE > 1 000 mJ	A, B, C, D	B, C, D	C, D^c
1 000 mJ > MIE > 3 mJ	B, C, D	B, C, D	C, D^c
MIE ≤ 3 mJ	C, D	C, D	C, D^c
NOTE 1. Additional precautions are usually necessary when a flammable gas or vapour atmosphere is present inside the FIBC, e.g. in the case of solvent wet powders			
NOTE 2. Non-flammable atmosphere includes dusts having a MIE > 1 000 mJ.			
^a Measured in accordance with IEC 61241-2-3.			
^b See Annex D for explanation of hazardous areas, zones and explosion groups.			
^c Use of Type D shall be limited to Explosion Groups IIA/IIB with MIE ≥ 0,14 mJ.			

General Warnings

- Do not use FIBCs in the presence of flammable atmospheres with ignition energies < 0.14 mJ.
- Do not use FIBCs in the presence of Hydrogen, Acetylene and Carbon disulfide (Group IIC according to EN 50014).
- In order to prevent incendive spark discharges from the surface of Type B and D FIBC, it shall not become contaminated or coated with conductive material (e.g. water, grease, or oil).
- Additional precautions are necessary when a flammable gas or vapor atmosphere is present inside the FIBC (e.g. in case of wet solvent powders).
- An important safe working practice with any type of FIBC in combustible dust and/or vapor and gas atmospheres includes grounding of all conductive materials, equipment and personnel in and around the flammable surrounding.
- Please consult with Accon for more information about the use of our Antistatic FIBCs
- All conductive objects in the vicinity of a Type D FIBC must be grounded