Stat

Anti-static bags

BOXON

Stat can be relied upon when static electricity is a risk

When filling and emptying certain products, static electricity may be generated. Friction within the product or when it rubs against the bulk bag can lead to combustion or an explosion, even in a neutral atmosphere. Stat bulk bags have anti-static properties – static electricity is safely discharged from the bag, thereby avoiding serious safety risks. Depending on their electrical discharge properties, our Stat bags are divided in types A to D.

Type A – Stat Type A is used with non-combustible products. These bags do not protect against electrostatic discharge and thus should only be used in non-explosive environments.

Type B – Stat Type B is used in environments where there is a risk of explosion. The fibres in the fabric, together with the coating, are adapted to withstand a breakdown voltage of up to 4 kV. This standard is attested by certificate.

Type C – Stat Type C is suitable for flammable atmospheres. A network of woven, embedded conductive belts – interconnecting to provide what is known as the Faraday's cage effect – together with earthing tabs, ensure that this bag offers minimum electric resistance. The resistance to earth is less than 10^8 Ohm from all parts of the bag. Each individual bag is tested and certified. The bag must be unconditionally earthed during both filling and discharge.

Type D – Stat Type D is usually made of Chromiq Blue fabric with woven in, conductive, non-interconnecting fibres. Earthing of this bag is thus not necessary as any electrical charges disappear into the surrounding air (corona-discharging).

For more complex applications, we can assist you by combining the properties of Stat with those of other bags in our range – for example, stable shape properties (Form) or increased safety requirements (Guard).

Guidelines for anti-static bags

The following table shows the anti-static properties of Stat bags (Types A to D):

Dust particles (median value < 0.1 mm)	Environment		
	Non-explosive atmosphere	Explosive atmosphere due to dust particles	Explosive atmosphere due to gas/ vapours
Non-explosive	A	B	C
MIE > 3mJ	B	B	C
MIE >1mJ to < 3 mJ	C	C	C
MIE < 1 mJ	C & S	C & S	C & S
MIE >3 mJ and specific resistance < 10^{11} Ohm	B	B	C or D
MIE >1 mJ to < 3 mJ and specific resistance < 10^{11} Ohm	C or D	C or D	C or D

S = Extra Protective Measures
MIE = Minimum Ignition Energy

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