



DESCO INDUSTRIES INC

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Desco MBB and Static Shielding Bag Hot Stamp Marking

The marking on Desco MBB and Static Shield bags is accomplished by a hot stamp process. This marking meets ANSI/ESD S20.20, Packaging standard ANSI/ESD S541, and Static Control Bag ANSI/ESD S11.4.

Hot stamping is an industrial marking process used commonly for plastics. Hot stamping by nature is not perfect and it is chosen primarily for its adequate appearance and low cost. This method is used industry-wide to mark static protective moisture barrier bags and static shielding bags, and our quality is as good or better than others. However, this method lends itself to some variation in print quality and therefore it is not designed for precision marking. Desco endeavors to ensure the legibility of markings, but cannot produce 100% completed hot stamp markings due to the limits of the hot stamping process. The criteria is that the marking can be read.

The Desco production floor is aware of this criteria. We emphasized our normal process of correcting or attempting to correct imperfections and not continuing to produce bags with less than desirable readability.

Per ANSI/ESD S20.20 section 8.5 Marking "ESDS [ESD sensitive] items, system or packaging marking shall be in accordance with customer contracts, purchase orders, drawing or other documentation. When the contract, purchase order, drawing or other documentation does not define ESDS items, system or packaging marking, the Organization, in developing the ESD Control Program Plan, shall consider the need for marking. If it is determined that marking is required, it shall be documented as part of the ESD Control Program Plan."

Per Packaging standard ANSI/ESD S541 section 8.2.1 Material Identification, "ESD protective packaging shall be marked with the ESD Protective Symbol" And section 8.2.3 Traceability "Packaging should be marked with information that allows traceability to the packaging manufacturer and to the manufacturer's date/lot code information. The date/lot code should allow traceability to quality control information pertaining to the manufacture of the specific lot of packaging."

Per Static Control Bag ANSI/ESD S11.4 section 6.0 Bag markings includes requirements for "be marked with the ESD Protective Symbol as defined by ANSI/ESD S8.1", and for MBB "shall be marked with the moisture sensitive identification symbol shown in Figure 2 or as defined by IPC/JEDEC J-STD-033." In addition, it recommends that "All bags should be marked with information that allows traceability to the packaging manufacturer and to the manufacturer's date / lot code information."