TECHNICAL SPECIFICATIONS FOR SELF-ADHESIVE HOLOGRAPHIC SECURITY LABELS

MATERIAL: Selective or total Tamper Evident polyester with a thickness of 25, 36 or 50 microns.

REFERENCES: MTE (Silver-Colored, Metalized Tamper Evident), TTE (Transparent Tamper Evident).

CHARACTERISTICS: Each holographic security label is embossed over metalized or transparent Tamper Evident polyester film, and is designed to leave a granulated or total detachment that destroys the hologram and shows that an attempt has been made to remove the label, making it non-transferable and non-reusable.

APPLICATIONS: These labels can be used for the identification, protection and promotion of packaging to prevent counterfeiting of products and brand items, such as fresh and canned food, medicine, replacement parts, liquor, software, electronic equipment, books, clothing, beauty products and cosmetics, jewelry and accessories, barcode and expiration date labels, etc.

PHYSICAL PROPERTIES: Labels are suitable for application to a great variety of clean surfaces, such as stainless steel, painted steel, lacquered wood, and plastics such as ABS, PC, PVC, PMMA, PS, etc. Surfaces upon which the labels are going to be placed must be free of dust, grease, oil, non-stick finishes, etc., and plastics must be free of release agents or other characteristics that may prevent the labels from effectively adhering to them, as this may affect the correct behavior of the Tamper Evident film.

For correct behavior of the film, the surfaces should be cleaned with a soft solvent before application, and enough pressure should be exerted when applying the labels to guarantee effective adhesion.

As each label is made with a contact adhesive, it requires sometime to completely stick to the area of application. A wait time of 24 hours is suggested before checking its behavior at room temperature.

Given that adhesion is a polarity phenomenon, the user must perform enough tests to gauge the behavior of the adhesive on the surface upon which the label is intended to be applied, as specifically on non-polar plastics like polyolefins and on some lacquers, varnishes and glosses used for packaging, there can be certain adhesion problems.

To avoid these problems, the surface must include a space where the label can be applied and to which it can stick successfully.

Labels are suitable for flat or slightly curved surfaces as the polyester is a semi-rigid material. Labels have a high resistance to manipulation as the holographic impression is protected by the polyester film.

QUALITY CONTROL: All rolls of labels produced are submitted to a rigorous quality control process.

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during the different stages of production, verifying their correct behavior on flat PVC, PMMA, PC, PS and stainless steel test plates according to the tests described in the FT-001-1 Technical Specifications, which can be supplied to the user upon request.

For labels with a centered logo, an oscillation of approximately 1.5 millimeters is guaranteed around the center of each label, and it is worth noting that the smaller the labels, the more evident this defect will be.

The number of labels delivered will be equal to the number of units requested by the user in the purchase order.

The holographic generation quality will be the best attainable with the technology developed up to the moment by COMBUSTIÓN ENGENIEROS S.A.S. and contracted by the user. The holographic printing quality depends as much on the generation as on the specific printing films, which are obtained from providers outside the country, and for this reason is guaranteed to the extent that it will not compromise the visual identification of the contracted art or the effectiveness of the hologram as a security element.

Holograms with minor defects, generally observed as dots or small scratches that only compromise aesthetic elements, will be considered adequate for use.

**STORAGE:** Rolls of holographic labels must be stored at an approximate temperature of 22°C (72°F) with relative humidity of 50%. Direct exposure to sunlight or higher temperatures must be avoided, as this may lead to bleeding of the adhesive and cause the labels to slide across the liner. When stored in optimal conditions, the labels can have a shelf-life of up to one year.

**USE:** The user is responsible for determining the proper use and application method of the product. COMBUSTIÓN ENGENIEROS S.A.S. IS NOT RESPONSIBLE FOR ANY EXPRESS OR IMPLICIT DAMAGES OR ADJUSTMENTS FOR PERSONAL PURPOSES.

**GUARANTEES:** This product has been tested and reviewed for defects. COMBUSTIÓN ENGENIEROS S.A.S. will only claim responsibility for replacing the products whose behavior proves to be defective on the internal quality control test plates.

**LIABILITY WAIVER:** COMBUSTIÓN ENGENIEROS S.A.S. is not responsible for direct, indirect or incidental damages, or damages arising from product non-conformity, inappropriate use, negligence, strict liability or any other cause.

The responsibilities specified above can only be modified through a written agreement signed by the legal representative of COMBUSTIÓN ENGENIEROS S.A.S.