



FIELD DEFENSE LABEL™

THE SCIENCE OF ID

Identification requires knowledge of codes, materials, adhesives, and reading technology. Freedom Technologies is dedicated to this pursuit & practical application.

CLIENT DRIVEN

All of Freedom Technologies Aptus ID products are driven by specific customer demands. Each product is designed to meet a real life need for ID or protection.

ENGINEERED ID FOR HARSH ENVIRONMENTS

Harsh environments are a specialty at Freedom Technologies. We welcome all challenges in ID; from security to tracing, we specialize in ID for parts which stand up to critical conditions.



Field Defense Label™ is designed with one goal in mind; FIELD DURABILITY.

Field durability is the ability for an ID to maintain readability during operational use. This must include the day to day maneuvers of an army in the field, a navy at sea or an air force in flight. Each of these forces encounters a wide variety of harsh conditions as part of their normal training and mission deployment. They spend countless hours training for these conditions and contractors spend as many hours making sure their equipment and materiel are up to the job as well.

Why should you expect any less from your ID?

Unique Identification (UID) is to allow field traceability of the proper source, it is critical that the ID performs when you need it. The most critical time you need it is generally in the field, when something needs to be

- Interior Mark Technology – Gen II laser labels provide protected marks.
- Highly chemical resistant – this label stands up to harsh fluids like jet fuel and hydraulic fluids.
- Crack resistant. Field Defense Label™ is flexible and pliable to apply on irregular surfaces and around sharp angles.
- World class durability. Whether its desert storms or constant impact, Field Defense Label™ is tough and remains readable.

repaired or replaced. Dealing with unreadable or missing ID is not something which should occupy the time of field personnel when they have a job to do.

Field Defense Label™ was designed to meet the demands of rigorous field use. Resistant to strong abrasion, it also is protected against chemical and fluids found in harsh conditions. The Field Defense Label™ which performs up to field class levels.

Our adhesive has been designed to permanently bond with CARC paint.



A Veteran Owned Small Business

Technical Information

1 TOP LAYER

The top layer of the label is a clear film, designed to provide optimum protection from a variety of influences. It is easy to read through.

2 LASER ACTIVE LAYER

The laser active layer is sensitive to the laser beam. When hit with the beam, the laser active layer changes from black to white to create any type of image, text or code.

3 ADHESIVE LAYER

The bottom adhesive layer has a selected adhesive which is well suited to bond to a wide variety of materials and become permanent. The adhesive is also resistant to chemicals, fluids and climate extremes.

For more information on any of our products or services please visit Freedom Technologies Aptus ID at:
www.freedomcorp.com/aptus.html

Field Defense Label™ is an advanced second generation of laser labels. Similar to standard laser labels, these labels are both cut and marked using a laser. A Fiber or Nd:YAG laser will accomplish both tasks at rapid speeds.

Field Defense Label™ separates itself from the rest through its innovative Interior Mark Technology*. This technology allows the laser beam to create an image on the inside of the label without damaging its protective top layer. The clear protective top layer is a strong barrier to chemicals, fluids and abrasion, having been engineered specifically to provide protection for the label markings.

* Interior Mark Technology utilizes a patent protected compound which allows for the laser beam to create a mark of texts and images on the interior of the label. This patented construction is vital to creating a protected image. The top layer of the construction is designed to withstand chemicals, machine fluids and withstand abrasion from natural sources like sand storms.



Material Information

- Black face with white reveal laser label material.
- Interior Mark Technology: markable by use of an Nd:YAG or Fiber laser (1064 nm to 1065 nm).
- Material is available in endless rolls at various lengths and widths to suit customer needs.
- Pre die cut label blanks sizes are also available in roll format. These labels are available with and without optional paint masks.
- All materials are available with customized pre prints in color. All materials are also available with self destruct feature at no additional charge (label destructs upon attempted removal).

SERVICES AVAILABLE

UID LABELS MARKED & READY TO APPLY

PRE-PRINTED LABELS

CUSTOMIZED ADHESIVES FOR SPECIAL APPLICATIONS

APPLICATION ENGINEERING FOR ID & PROTECTION



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