CRYOGENIC SAMPLE TRACKING

Industry Need
Modern life sciences commonly require long term preservation of biological material; cryogenic processing and storage provides a means to this end. With a large quantity of small samples in storage, accurate tracking is critical. Barcoded labels (with linear or 2D symbols) are the preferred method, but the extreme environmental stresses can cause failure with label substrates.

Cryogenic conditions have become commonplace in multiple applications, ranging from pharmaceutical processing to lyophilization of vaccines. Cryopreservation of tissues and cell suspensions in small vials provides its own set of challenges, requiring conformability to small diameter surfaces and adhesion to low surface energy plastics such as polypropylene and polyethylene. Increasingly common cryogenic shipping of vaccines, tissues, and medicines in liquid nitrogen with temperatures as low as &minus;112°F / &minus;80°C now subjects a greater range of barcoded items to these stresses.

Customer Benefits
• Robust traceability through harsh cryogenic processing and storage
• Temperature resistance as low as &minus;196°F (-127°C)
• Durable, high contrast print for consistent scanning performance
• On-demand generation of high quality labels
• Reduced total cost of ownership with free printhead replacement program when Honeywell labels and printers are used together
Honeywell Solutions

Honeywell Duratran II Gloss Film labels deliver reliable performance through the wide range of conditions commonly encountered in cryogenic tracking applications. The aggressive adhesive develops a strong bond with polypropylene and polyethylene vials as well as less challenging plastics, glass, and steel. The highly flexible facesheet provides excellent conformability to small diameter 1 mL vials, ensuring that labels do not flag or peel even after multiple freeze and thaw cycles. The thin profile of these labels ensures compatibility with standard storage racks and automated processing.

Printed with the Honeywell TMX3000 ribbon series, bar codes and human readable text have excellent abrasion durability, providing superior readability through extensive manual and automated handling and centrifugation. The rugged label system offers excellent moisture resistance for water bath processing. Printed images survive typical contact with common lab solvents and cryoprotectants such as DMSO (dimethyl sulfoxide).

Better Together

In mission-critical life science tracking applications, the labeling system must operate flawlessly. Honeywell printers and supplies are optimized to deliver superior performance when used together. Our rigorous testing and co-engineering ensures consistently high print quality, proven label and tag performance in demanding real-world environments, and maximum print head service life for reduced downtime.

When it comes to deploying a complete cryogenic bar code labeling solution, Honeywell is the smart choice. Honeywell printers and supplies are complemented by the industry’s only complete line of integrated solutions and services, including rugged portable computers, RFID systems, and advanced scanning technology. Honeywell’s products and services are used by customers worldwide to improve the productivity, quality and responsiveness of their business operations.

For more information

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