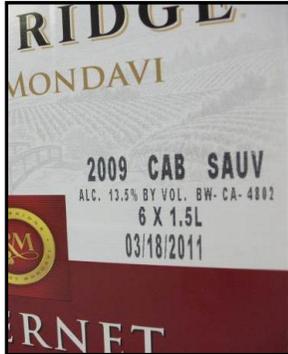




Did you know.....?

## DUK 4: Non Porous Impulse Jet

**Did you know** that a non-porous ink version of the IJ3000 high resolution impulse jet system is now available? Diagraph now offers high resolution print for non-porous surfaces. Some examples of common non-porous products are decorative display cartons, treated or glossy corrugate, shrink wrap, plastics, metals, fiberglass and painted surfaces.



Non-porous print presents a challenging opportunity for a growing market segment. The technical challenge in producing a hi-res inkjet system for the NP market was to develop an ink that would dry rapidly on NP surfaces without also drying.....and clogging... on the print nozzles. Diagraphs IJNP product solved this challenge with an ingenious combination of ink chemistry and proprietary subsystems for managing ink and solvent. The ink, **A5000**

**AlliWrite**, is formulated with a solvent base. A5000 is designed to quickly form a protective skin which inhibits drying on the PH faceplate during print pauses but can quickly be revitalized when print resumes. Solvent is supplied from the newly redesigned CIDS for use in the automatic cleaning cycle.

Some substrates prove to be more challenging than others for dry time. To improve dry times in these cases an **automatic air knife** has been developed. The automatic air knife only operates when product presence triggers a photo cell. The auto air knife is programmable for duration so that it reduces air usage (and cost!) by only turning on when triggered by photocell and then shutting off after the programmed duration time has elapsed.

The IJNP system with A5000 ink produces a dark and durable mark that has excellent resistance to abrasion and is unaffected by warmer temperatures.



Nonporous ink/substrate compatibility can be improved with corona treatment. Substrates can be purchased with corona treatment or equipment can be purchased to treat substrate before print on production lines.