# TECHNICAL BULLETIN

## ANSI 107 Hi-Vis Standard Revised for 2010

## NEW STANDARD MAKES CHANGES TO GARMENT DESIGN REQUIREMENTS AND CLARIFIES FR TESTING AND LABELING

On January 8th, 2010, ANSI approved the ISEA revision of the 107 Standard on High-Visibility Apparel. As with previous versions, the new standard—noted as ANSI/ISEA 107-2010—sets the basic guidelines and minimum requirements for reflective apparel. And while it is largely unchanged, there are two noteworthy differences in the 2010 version.

### GARMENT DESIGN REQUIREMENTS AND PERFORMANCE CLASS DEFINITIONS

One major change affects garments which DO NOT have reflective material encircling the arms—most often Class 2 vests. Under the 2010 standard, these garments must now include a minimum of 23.25 square inches of reflective material on the shoulder areas. In the past this was recommended as a best practice, but now has been made mandatory.

Ergodyne's GloWear vest designs have always followed this best practice and featured reflective material on the shoulder area. As a result, none of our garment designs will require change for ANSI 107-2010.

Please note that the 2010 revision does not make any changes to the amount of background or reflective material required for the performance classes; and performance Class 3 garments still require sleeves with reflective material encircling them.

### CLARITY AND LABELING REQUIREMENTS FOR FLAME-RESISTANCE (FR)

Another significant change to the 2010 revision is the addition of testing and labeling requirements for garments marketed as "FR." Under the new standard, any garment labeled FR must comply with at least one of seven commonly accepted FR standards. These FR standards, independent of ANSI 107, are published by either ASTM or NFPA.

To comply with ANSI 107-2010, FR garments must now be specially labeled in one of two ways.

- For garments tested to an ASTM FR standard, the letters "FR" followed by the specific ASTM standard must appear on the garment's interior label.
- For garments tested to an NFPA standard, a separate label indicating certification must be attached to the garment.

The GloWear offering currently includes the 8255HL Class 2 vest, which uses an FR-treated polyester fabric. While this fabric has been tested to portions of an ASTM

standard (F1506), the 8255HL WILL NOT MEET the marketing requirements under ANSI 107-2010 and therefore WILL NOT BE LABELED AS FR.

Early this year, Ergodyne will introduce the 8260FRHL, a Class 2 vest made from a modacrylic mesh FR fabric. This model will be fully compliant to ASTM F1506 and labeled as FR under ANSI 107-2010.

## GLOWEAR® HI-VIS APPAREL AND NEW ANSI 107 REQUIREMENTS

Ergodyne has long been involved in hi-vis garment design and manufacture. And, through our membership in ISEA, we've also long been active in the development and revision of the ANSI-107 standard. This experience has produced a level of Hi-Vis expertise hard to equal in the PPE industry.

We are fully prepared and eager to answer any of your Hi-Vis or other PPE questions.

For more details on the 8260FRHL Class 2 vest or for questions on anything regarding ANSI 107, please contact Andy Olson at 651.642.5858 or andrew.olson@ergodyne.com.

Printed copies of ANSI-107 2010 will be available for purchase through ISEA at http://www.safetyequipment.org in early February.