

**PROPERTIES OF DISPOSABLE WOUND CARE PRODUCTS MADE WITH COTTON NONWOVEN**

**Laurence Chan**  
**Strata America, Inc.**  
**San Diego, CA**  
**J. Q. Li**  
**Winner Medical Group**  
**Shenzhen,**

**Abstract**

Traditionally, disposable wound care products such as dressing and surgical sponges, laporatomy sponge and operating room (OR) towels are made with either woven gauze or synthetic nonwovens. However, it is generally recognized that there are many shortcomings in the properties for the gauze and the synthetic nonwovens fabrics. The ideal fabric for making the wound care products should combine the natural cotton feel of the gauze and the favorable characteristics of the synthetic nonwoven material. The desire for such a material has prompted Winner Medical to develop and subsequently launch the PurCotton™ nonwoven cotton fabrics made with USA grown cotton using a patented spunlace process in the last year. With the use of the patented process, the PurCotton™ nonwoven fabrics are much more price competitive when compared with other nonwoven cotton fabrics available in the market today. In addition to the 100% cotton nonwoven, we have also launched a cotton/PET nonwoven blend to address the market need for an alternative to the Rayon/PET blend due to the increasingly higher price of the Rayon. In our paper, we have provided data to show that PurCotton™ and the cotton/PET nonwoven fabrics blends of various properties can be used to make a wide range of wound care products with superior characteristics over the traditional materials.