

TWO NEW MICROCREPED PRODUCTS:

It is difficult for us to share with our audience the breadth of new products we are working on. Customer confidentiality, IP, and trade secret considerations all stand in the way. What follows are descriptions of two of the developments that we can write about which rely on Micrex Technology for their unique product attributes.

ELECTRIC INSULATION WRAPS:

Micrex has a long history in working with roll goods manufacturers as well as product specialists in a wide array of applications. Some areas of success have been within the medical, packaging, and consumer products industries. Many of these applications have been straightforward, with low technical requirements or focused toward commodity products.

Micrex's entry into some of the more technically challenging fields has earlier been restricted by aesthetic and web formation issues inherent in the Microcreping process. However, important new developments at Micrex have reduced or eliminated these limitations.

Microcreped paper for Electrical Insulation Wrap is one example. Test results have been reported to us far exceeding that of comparable "wet" crepe.

Where the traditional wet crepe process utilizes additives in order to succeed in the creping process Micrex eliminates the use of all additives, resulting in a cleaner process, and more importantly:

- Better dielectrics
- Improved absorbency time and permeability for use in saturated applications
- Wider processing width (up to 2 meters)
- Higher processing speed
- Reduced energy and additive costs.

Outcome - reduced cost with similar or better technical characteristics.



Micrex processed paper wrapped over cable

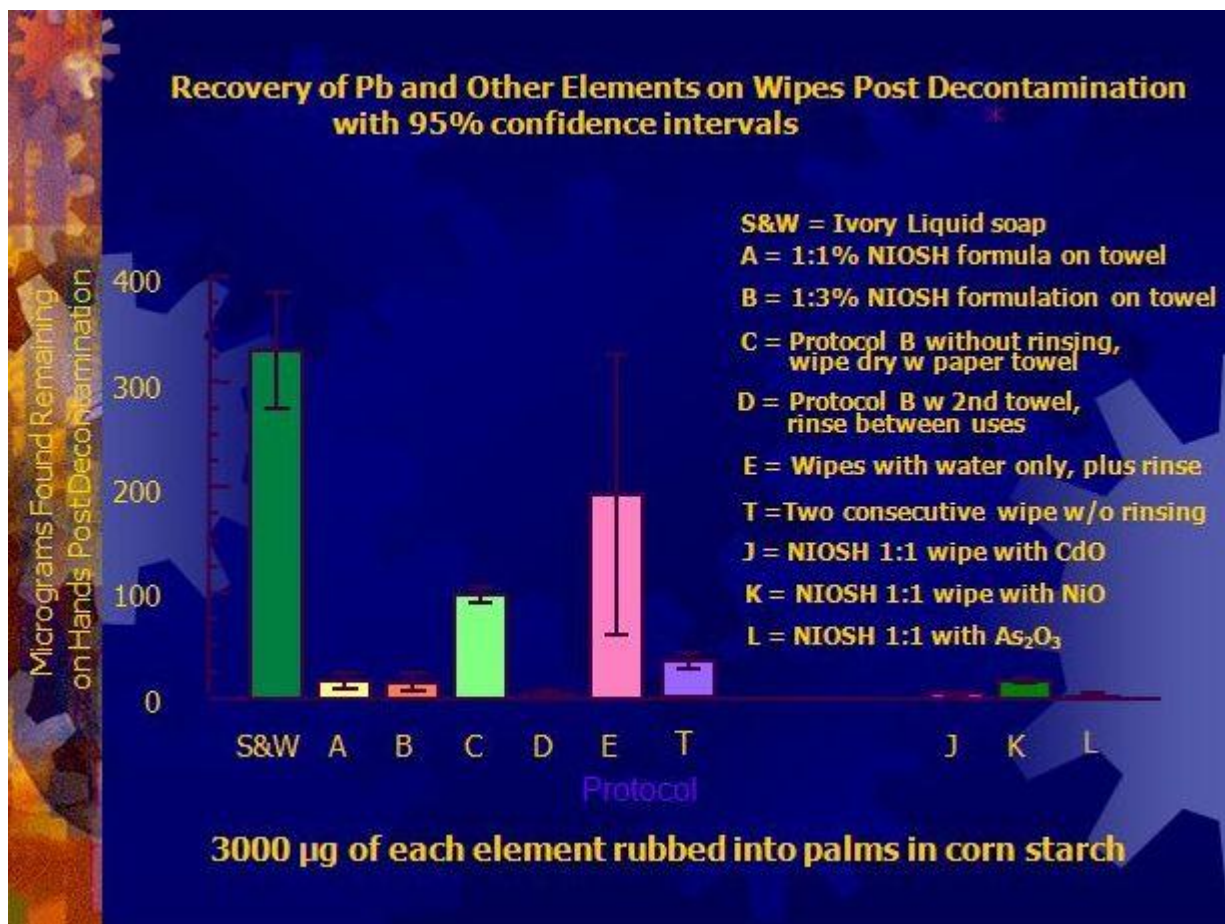
Micrex continues to develop a better understanding of a wider range of product for electrical applications requiring extensibility, conformity and higher technical results.

Other materials to be considered for this application include:

- Paper and film laminates
- Films, including metalized films
- Metals such as aluminum, copper
- Dry type materials and wraps
- Tapes for adhesive application
- Natural fiber
- Nonwovens

REMOVING TOXIC LEVELS OF LEAD FROM THE SKIN:

Several years ago Micrex was contacted by Captain Eric Esswein from National Institute for Occupational Safety and Health (NIOSH). Eric and his co-inventor Mark Boeniger were looking for a very special disposable wipe. They had already developed a unique chelating compound that would neutralize lead and other toxic deposits on the skin. What they needed was a wiper delivery system that combined high absorbency with a scrubbing surface. This scrubbing wiper when produced in a system with their novel lotion, removes far more of the toxic compounds than could be removed with any other method.



How big a problem is lead toxicity? Estimates are that in the U.S. alone over 600,000 industrial workers, military, and children are exposed to dangerous levels of lead and other toxic compounds each year. These compounds pass from hand to mouth and are ingested unless the transfer is interrupted by an effective decontamination system. NIOSH licensed wipes utilizing the patent pending Micrex Wet Wipe technology provides just such a decontamination system.

For more information about this development:

[Real Occupational Hygiene: What Does it Take to Remove Toxic Metals from Skin? \(pps\)](#)

Esswein, E., Boeniger, M., and Ashley, K., AIHce presentation, 2009, Toronto Canada

As always, if there is anything we can do to help your company better utilize the Micrex Process to impart softness, bulk, stretch, hand improvement, absorbency, drape and decorative effects in paper, textiles, films and nonwovens, please contact us.

For previous newsletters please see: <http://www.micrex.com/newsletter.htm>.

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