



## CHALLENGE 900-HT SERIES PRODUCTS

### COST EFFECTIVE, LOW FOAMING DETERGENTS

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CHALLENGE 900 HT Series Products are low-foaming, water-based detergents formulated to perform in spray wash and brush clean applications where mechanical operation makes foam an issue, but, ultra-clean surfaces are always a necessity. These unique formulations provide the surface wetting and detergency needed to remove organic and inorganic contamination regardless of the substrate material. Typical applications include cleaning of optical components, ceramic components, magnetic storage media, TFT's, OLED's and STN, ceramics, plastics, photo-mask blanks, storage boxes, etc. CHALLENGE 900 HT Series Products are available in three pH ranges to best suit the substrate and the soil. Typically, the products are used after grinding, lapping, etching, polishing or other applications that require particle removal without damaging the substrate. Each of the CHALLENGE 900 HT Series Products can be manufactured with low metals if necessary (designated by the prefix "LM")

#### Benefits:

- Superior wetting with extremely low foam
- Free rinsing - leaves no film or residue
- Economical and safe to use
- Fully compatible with other CHALLENGE products

#### Products:

- CHALLENGE 903 HT- pH @ 3% = 3.5
- CHALLENGE 907 HT- pH @ 3% = 6.7
- CHALLENGE 910 HT- pH @ 3% = 10.4
- CHALLENGE 912 HT- pH @ 3% = 12.0

#### Directions:

It is recommended that evaluation of any of the CHALLENGE 900 HT Series begin at a dilution of 3% mixed with deionized (DI) water, although tap water that does not contain hard water ions is also acceptable. Since the type and degree of residue to be removed varies, these factors will ultimately determine specific "in-house" dilutions. Other factors to consider include temperature, exposure time and functioning of the spray wash/brush-clean or other mechanical cleaning system.

#### Additional Information:

CHALLENGE Products are available in 5-gallon pails and 55-gallon drums, F.O.B. Bethel, Connecticut, and also include: ultrasonic and megasonic detergents, grinding fluids, sawing fluids, suspension additives for lapping/polishing slurries, polishing pads, etching additives, and rinse/wash agents. Material Safety Data Sheets available upon request.

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