



innovative chemical technologies, inc.

## **Flexiwet NR-50**

### **TECHNICAL DATA SHEET**

- ◆ **Powerful Nonionic Wetting Agent**
- ◆ **Relatively Non Rewetting**
- ◆ **Designed For Use With Fluorochemical Oil and Water Repellents And As A Detergent Wetter For Cleaning Systems**
- ◆ **Water Soluble**
- ◆ **Provides Efficient and Uniform Wetting**
- ◆ **Exceptional Wetting of Difficult to Wet Surfaces Including Polyolefin, Silicon Contaminated Fabrics, And Plastics**
- ◆ **Improves Performance of Expensive Finishing Agents Including Fluorochemicals, UV Absorbers, and Optical Brighteners**
- ◆ **Nonionic and Compatible with a Broad Range of Finishing Agents And Formulations**
- ◆ **Very Low Concentrations (0.1 to 0.25%) Reduce Surface Tension to 25 – 27 dynes/cm**
- ◆ **Not Flammable**

### **APPLICATIONS**

- ◆ **Upholstery**
- ◆ **Apparel (Fabrics of all types)**
- ◆ **Military Quarrel**
- ◆ **Cotton Bleaching and Scouring Alkaline Stable, Low Foam Wetter**
- ◆ **High Performance Cleaners**
- ◆ **Clean In Place Food And Beverage Cleaners**
- ◆ **Quat Cleaners**

## **TECHNICAL INFORMATION**

Flexiwet NR-50 added to finishing baths at concentrations of 0.1 to 0.25% on weight of bath will reduce surface tension to between 25 and 27 dynes/cm. This is sufficient to wet most surfaces uniformly and efficiently. This includes difficult to wet surfaces like polyolefin fabrics and silicon contaminated fabrics. Because so little Flexiwet NR-50 is required to reduce the surface tension of the bath and because it is relatively non rewetting, Flexiwet NR-50 will not reduce the repellency of high performance fluorochemical oil and water repellent finishes. Flexiwet NR-50 will not diminish initial repellency, finish durability, dynamic absorption, or hydrostatic head. This is especially important for applying high performance finishes like Quarpel.

Flexiwet NR-50 is nonionic and compatible with most finishing agents, including costly fluorochemical oil and water repellents, UV absorbers, and optical brighteners. Flexiwet NR-50 is low foaming and alkaline stable making it a perfect choice for bleaching or scouring cotton. Flexiwet NR-50 is also low odor and non flammable which gives it considerable advantage over other nonrewetting wetters such as methanol, isopropanol and other alcohols.

Add 0.1 to 0.25% Flexiwet NR-50 to water with good agitation to uniformly disperse it and then add the finishing agent to the bath.

## **TYPICAL PROPERTIES**

Appearance	Clear, Colorless Liquid
Density @ 25C	1.02 +/- 0.02 g/ml (8.5 lbs/gal)
pH (5%)	5 - 10
Water Solubility	Soluble
Boiling Point	100 C

## **PACKAGING/HANDLING**

Flexiwet NR-50 is available in totes (Net Wt. 2200 lbs),  
55 gallon drums (Net Wt. 440 lbs) and 5 gallon pails (Net Wt. 40 lbs).  
DOT Classification is Non Regulated