



innovative chemical technologies, inc.

## **FLEXIWET NI-M**

### **TECHNICAL DATA SHEET**

- ◆ **Fluorinated Nonionic Surfactant**
- ◆ **Outstanding Wetting Properties: Perfect Choice For Wetting Difficult To Wet Surfaces**
- ◆ **Stable and Effective in Hard Water**
- ◆ **Stable In Concentrated Acids, Bases and Oxidizing Solutions**
- ◆ **Low Use Levels Required (0.01-1.0%)**
- ◆ **100% Active Version Available for Non-Aqueous Systems**

### **APPLICATIONS**

- ◆ **Floor Polishes/Strippers**
- ◆ **Paints & Coatings**
- ◆ **Caustic Bottle Washing**
- ◆ **Acid Based Cleaners**
- ◆ **Bleach Based Cleaners**

## TECHNICAL INFORMATION

Dramatic surface tension reduction of all types of aqueous systems can be achieved with the addition of 0.001 to 0.1% of Flexiwet NI-M. It performs well and is stable in severe thermal and chemical environments (strong acid, base or oxidizing solutions). Low surface tensions can be achieved in both highly alkaline and highly acidic systems. For example, the surface tension of 10% Sodium Hydroxide can be lowered to 30 dynes/cm with 0.01% Flexiwet NI-M and to 20 dynes/cm with 0.1% Flexiwet NI-M.

Flexiwet NI-M is an excellent choice for wetting difficult to wet surfaces such as plastics, oily substrates, waxy surfaces, and silicone and fluoropolymer treated fabrics because the surface tension of aqueous solutions and emulsions can be reduced to 20 dynes/cm. This low surface tension results in better wetting, spreading, and penetration which translates into improved film uniformity, enhanced adhesion, reduced pinholes and craters for coatings, reduced droplet size and therefore less water spotting, and smoother and more even films for finishes and polishes. It also translates into better wetting and penetration of cleaning solutions which makes them more effective.

Flexiwet NI-M provides far greater surface tension reduction than can be achieved with either hydrocarbon or silicone based surfactants. When used in conjunction with “conventional” hydrocarbon surfactants, it is possible to achieve a system that not only dramatically reduces surface tension, but also lowers interfacial tension resulting in a liquid that easily wets and spreads on otherwise hard to wet surfaces.

Upon storage, a small amount of actives will settle to the bottom of containers of Flexiwet NI-M, which redisperses readily. As such, **Flexiwet NI-M should be mixed well immediately prior to use to ensure consistent performance.**

**Note: ICT also offers Flexiwet NI-M100 which is a 100% active version of Flexiwet NI-M. Contact ICT for details.**

## TYPICAL PROPERTIES

Appearance	Clear, Amber to Dark Brown Liquid
Density @ 25C	1.05 g/ml (8.76 lbs/gal)
pH (as is)	4.0-8.0
Water Solubility	Soluble
Boiling Point	Approx. 100C

## PACKAGING/HANDLING

Flexiwet NI-M 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.