



innovative chemical technologies, inc.

FLEXIWET NF-80

TECHNICAL DATA SHEET

- ◆ **Highly Concentrated Fluorinated Anionic Surfactant That Delivers Strong Wetting Power (18.5 dynes/cm @ 0.1% actives)**
- ◆ **Stable in Concentrated Acids, Bases, And Oxidizing Solutions**
- ◆ **Performs At Very Low Use Levels (0.001-0.1%)**
- ◆ **Zero VOC, And Low Foaming (Ideal for Coatings Applications)**
- ◆ **Good Solubility In Polar Organics (i.e., Alcohols and Ketones)**
- ◆ **A Pourable Semisolid at Room Temperature**

APPLICATIONS

- ◆ **Wetting Agent In Strong Acid And Base Solutions (Including Chromic Acid Baths and Acidic Battery Solutions)**
- ◆ **Wetting Agent in Floor Strippers and Polishes**
- ◆ **Improves the Penetration of Cleaners/Degreasers**

TECHNICAL INFORMATION

Flexiwet NF-80 is a highly concentrated form of Flexiwet NF, sold as a semisolid paste. It is especially useful in severe service applications, as a wetting agent that is stable even in concentrated acids (hydrochloric, nitric, sulfuric, chromic) and bases (sodium and potassium hydroxide). Surface tensions at or below 20 dynes/cm are achievable with as little as 0.1% actives in these acids/bases.

Flexiwet NF-80 is somewhat sensitive to hard water, and some turbidity results when diluted if deionized or softened water is not used. Also, use caution when adding Flexiwet NF-80 to concentrated acids and bases, as the product contains water and will therefore produce substantial heat of dilution.

Flexiwet NF-80 is also a low foaming surfactant: a 0.1% actives solution in water foams only slightly and settles quickly even though the surface tension is reduced to 18.5 dynes/cm. This property makes it an ideal candidate for cleaning applications where effective wetting, cleaning, and penetration are required but where little or no foaming is also needed.

TYPICAL PROPERTIES

Appearance	Off-White to Brown, Viscous Emulsion that Pastes Upon Standing
Density @ 25C	1.7 +/- 0.1 g/ml
pH (1% soln in DI water)	2.5 +/- 0.5
Water Solubility	Soluble
Boiling Point	Approximately 100 C
Odor	Mild

PACKAGING/HANDLING

Flexiwet NF-80 is available in 55 gallon drums (Net Wt. 440lbs)
and 5 gallon pails (Net Wt. 40 lbs).
DOT Classification is Non Regulated