



innovative chemical technologies, inc.

FLEXIWET AT-20

TECHNICAL DATA SHEET

- ◆ **Partially Fluorinated Amphoteric Surfactant**
- ◆ **Exceptional Foam Creation: ideal wetting agent where foaming is desired**
- ◆ **Water Based & Water Dilutable – useful at very low concentrations**
- ◆ **Hard Water and Saline Tolerant: maintains performance properties, even in sea water or brine solutions**
- ◆ **Compatible: amphoteric nature allows it to be incorporated into almost any formulation (anionic/cationic/nonionic). Pairs well with silicone or hydrocarbon surfactants to provide synergistic benefits**
- ◆ **Stable: useful in most severe service applications (extremes of pH, temperature, peroxide stable, etc)**

APPLICATIONS

- ◆ **Personal Care: hair conditioners and rinses, shaving creams, shampoos, foaming cleansers**
- ◆ **Oilfield: methanol/water foam rinses for pipelines, brine removal from natural gas wells, petroleum well fracturing/stimulation**
- ◆ **HI&I: dishwashing formulations, furniture polishes, car wash foaming cleaners, foam stabilizers, metal cleaners/degreasers**
- ◆ **Large Scale Industrial Uses: corrosive mist suppression, “foamed concrete” production, leach mining additive**
- ◆ **Surface tension reduction in solvent containing inks and adhesives**

TECHNICAL INFORMATION

Flexiwet AT-20 is a propylene glycol containing fluorosurfactant that has been shown to reliably deliver high foaming in many aqueous and alcohol/water systems. It's resistant to hard water and to saline content, making stable foams in many situations where many surfactants do not. As an amphoteric, can be readily incorporated into a wide range of formulations and used in combination with hydrocarbon and silicone surfactants. This potent wetting agent is also stable in harsh environments, making it ideal for many cleaning products formulations.

FORMULARY

Recommended use rates for Flexiwet AT-20 vary from 0.02-0.06% in water base systems to 0.25-0.75% in neat or solvent borne systems.

Dilutions: Flexiwet AT-20 dilutes well in water to use concentrations. Addition of small amounts of water, will not affect performance, but can increase its viscosity. Dilution into polar organics (IPA, glycol ethers, etc) is also readily achieved.

Storage : Stable as delivered. If stock solutions are prepared from Flexiwet AT-20, long-term storage of these may require addition of a suitable biocide/fungicide, such as 0.1% by wt. of Proxel GXL.

TYPICAL PROPERTIES

Appearance	Light Amber Liquid
Odor:	mild, amine
Density @ 25 ⁰ C	1.12 +/- 0.05 g/ml (9.4 lbs/gal)
pH (as is)	7-9
Water Solubility	Soluble
Actives:	20%
Solvent:	Propylene Glycol

PACKAGING/HANDLING

Flexiwet AT-20 is available in totes (Net Wt. 2205 lbs), 55 gallon drums (Net Wt. 441 lbs), and 5 gallon pails (Net Wt. 40 lbs).

DOT Classification is Non Regulated.

Product has not been evaluated for freeze-thaw stability.

Do not freeze.