

Paratene™ NTWF

“Non Toxic Water foamer”

Description

Paratene™ NTWF is a blend of non-toxic, nonionic surfactants designed to produce foam in water and brine. Paratene™ NTWF composition will provide a foamed water solution which meets or exceeds the toxicity requirements given by the Energy and Utility Board of Alberta.

Features and Advantages

- ❑ Non-toxic
- ❑ Nonionic
- ❑ Non-flammable
- ❑ Good foam
- ❑ Very low surface tension

Typical Physical Properties

Appearance	Clear liquid
Specific Gravity	1.01 at 15.5 °C
Flash Point	None
pH	7.5 – 8
Freeze Point	0°C
Ionic Character	Nonionic

Methods of Application

Paratene™ NTWF can be added to drilling fluids or fracturing fluids at concentrations up to 1%. The table below gives the foam characteristics generated by Paratene™ NTWF.

Tested In Distilled Water

% NTWF	Foam Quality (%)	Half Life (s)
0.1	73	25
0.2	75	25
0.4	79	72
0.6	83	120
1.0	85	160

Tested in 1% CaCl₂

0.6	81	90
1.0	84	140

The Microtox™ test values were measured for the solutions in distilled water. A 1% solution and all dilutions below 1% were measured to have a Microtox™ value of greater than 910L/m³.

The solutions should all be tested for efficacy and toxicity when blended with other additives.

In applications where an extended half life is required, Woodrising can supply a foam stabilizing product “Paratene™ Foam Stabilizer” that also measured a Microtox™ test value of greater than 910 L/m³.

Consult with the Woodrising laboratory to determine the best application for your problem.

Safety and Handling

Paratene™ NTWF is nontoxic and non hazardous.

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