



A-416 FLUORESCENT ADDITIVE

Technical Data Sheet

Description: A-416 fluorescent additive is a highly concentrated additive for hydrostatic leak testing. It adds fluorescent color to the water. Water leaking through defects to the exterior surface will carry fluorescent color for more positive flaw detection when the surface is viewed under black lights. While still wet, leaking water fluoresces blues after drying, the water spots fluoresce yellow.

Chemical Properties

Color:	Green
Viscosity:	112.5 cSt @ 100°F
Fluorescence:	Yellow/Green
Water Tolerance:	Infinite
Flash Point:	230°F (110°C)

Companion Products

DR-60 Solvent Remover
DR-62 Solvent Remover

Packaging

One Gallon Cans 55 Gallon Drums
Five Gallon Cans

Storage /Shelf Life

Keep away from moisture and sunlight.
Temperature limit: 40°F to 125°F (0-50°C)
Keep the container closed when not in use.
Shelf life from invoice date: Bulk Container – 5 Years

Special Features

1. Lowers surface tension and increases penetrant capability of the water.
2. Does not contain corrosion inhibiting agents or biocides.
3. Concentrated additive for hydrostatic leak testing.



Instructions

Note: These instructions describe the basic process, but they may need to be amended by the user to comply with applicable specification and/or inspection criteria provided by the contracting agency.

1. **Application:** Add **A-416** to water at a ratio by volume of from 1 to 5 parts **A-416** to 10,000 parts water (100 to 500 ppm).

Note: Higher concentrations of **A-416** produce increased water spot visibility.

2. Mix thoroughly

3. Allow 10 minutes time before starting the inspection. This time can be extended to 30 minutes or longer.

Inspection: If microscopic pin holes are of concern, in addition to examining the surface for water leaks while the vessel is charged with water, the surface should be examined under black light after draining for yellow fluorescent dried water spots, evidence of a leak.

For maximum leak spot visibility, examine as soon as possible after leak spots have dried, since fluorescent indications will gradually fade. When inspecting, the area should be darkened to maximize contrast between the surface and glowing indication of a leak.

Requirements for Inspection

- At a concentration of 500ppm, the solution is very weak and destruction of fluorescence by sunlight and contamination can be rapid.
- Do not expose the surfaces to sunlight, as the sun's ultra-violet rays rapidly destroy fluorescence.
- Do not store and re-use treated water, as shelf life of the fluorescence in the highly diluted form is limited.
- Make certain that the water used in the test is not acidic or highly charged with biocides which will destroy fluorescence.

Health & Safety

A-416 is a combustible liquid. Use with adequate ventilation and away from sparks, fire, or open flames. Avoid prolonged or repeated contact with skin. Do not take internally. Consult the MSDS for more safety and health information.