

EchoPure™

Ultrasonic Couplant



EchoPure is the couplant of choice for Phased Array Manual UT Inspection (**PAMUT**). **EchoPure** eliminates dry spots under the wedge and resulting element drop out and improves defect reproducibility. There is no couplant build up which can result in false indications. EchoPure complies with **P91** steel inspection requirements for a water-free couplant. EchoPure is an ideal couplant for very cold inspection and will not frost on test objects causing attenuation at temperatures as low as -60°F/-51°C. EchoPure is also excellent for ambient and elevated temperature use such as warm welds up to 350°F and on pipe in the desert summer sun, where slow evaporation and long inspection windows are desired.

PRODUCT DESCRIPTION

Very slow drying. Drying time is days or weeks.

Four viscosities: Fluid, low, medium, and high.

Salt stable. Does not thin with corrosion, roadway or marine salts.

All ingredients approved for incidental food contact. Environmentally friendly.

Water-free and water-soluble with excellent acoustic properties.

Compatible with most metals, composites and plastics. Mild ferrous corrosion inhibition, less corrosive than water alone.

PACKAGING

1 gallon / 3.8 liter cubitainer
5 gallon / 19 liter cubitainer
55 gallon / 208 liter drum*

***Note:** High viscosity requires Echo supplied hand pump for 55 gallon drums.

REMOVAL: Wipe with a rag or water wash.

PRODUCT SPECIFICATIONS

Operating Range:

-60° to 350°F (-51° to 176°C)

- **Auto-ignition Temperature:** 700°F (371°C)
- **Viscosity:**
Fluid
Low: Similar to glycerin
Medium: High viscosity fluid
High: Stiff gel-like fluid (best for high temperature surfaces or ambient)
- **Halogens & Sulfur:** Less than 50 ppm
- **pH:** 8.0 nominal at 20°C
- **ASTM F519** Conforms: ASTM F519 Standard test method for Mechanical Hydrogen Embrittlement Evaluation of plating processes and service environments.
- Complies with **water-free requirement** when inspecting **P91** steel.

SDS available at echoultrasonics.com

ECHO ultrasonics
The couplant experts

BERG ENGINEERING & SALES CO., INC.
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