

# EchoPure™

Phased Array  
Cold Weather  
Warm Welds



**EchoPure** is the most universal water-soluble/water-free UT couplant and the couplant of choice for Phased Array Manual UT (PAMUT) Inspection. EchoPure improves defect reproducibility by eliminating dry spots under the wedge and the resulting noise and artifacts.

**EchoPure** is an ideal couplant for very cold environment inspections 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

Strongest coupling film available. Ideal for phased array and angle beam inspection.

Very slow drying. Drying time is days or weeks.

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

Better multi-metal compatibility than most UT couplants.

Does not contain glycerin.

Ingredients approved for incidental food contact.

Environmentally friendly.

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

## PACKAGING

1 gallon / 3.8 liter cubitainer

5 gallon / 19 liter cubitainer

55 gallon / 208 liter drum

## PRODUCT SPECIFICATIONS

### Operating Range:

-60° to 350°F (-51° to 176°C)

- **Auto-ignition Temperature:** 700°F (371°C)
- **Viscosity:**  
Low: Similar to glycerin  
Medium: High viscosity fluid (similar to honey)  
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
- **Compliance:**  
ASTM F519  
P91 steel water-free requirement  
ASME Boiler & Pressure Vessel Code (T-533)  
NAVSHIPS 250-1500  
FAA-AC #25-29 (Glycerin-free)  
Nuclear Grade (< 50 ppm Halogens & Sulfur)

**REMOVAL:** Wipe with a cloth or water wash.

SDS available at [www.echoultrasonics.com](http://www.echoultrasonics.com)

**ECHO** ultrasonics  
The couplant experts



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