

Couplant Solutions Catalog

ECHO
ultrasonics

The couplant experts

EchoPure™

The most universal water-free UT couplant

Operating Range: -60° to 350°F / -51° to 176°C

- Ideal for very cold and very warm inspections
- Couplant of choice for phased array manual inspections (PAMUT)
- Complies with P91 steel requirement for water-free couplant
- Three viscosities
- Very slow drying
- All ingredients generally recognized as safe
- Water-free means no ice crystals which cause noise, down to -60°F / -51°C



SuperSoniX™

Enhanced performance

Operating Range: -10° to 220°F / -23° to 104°C

- Contains glycerin to improve signal to noise ratio
- Slow drying
- Improved stability against corrosion salts
- Compatible with most materials
- Medium and high viscosity
- Water-soluble



UltraSoniX™

Glycerin-free – Aircraft grade

Operating Range: 10° to 220°F / -12° to 104°C

- Glycerin-free – meets FAA AC 25-29 requirement of no glycerin for aluminum inspections
- Compatible with most materials
- Medium viscosity



Signal™

The couplant for better signal with less noise

Operating Range: -18° to 224°F / -28° to 107°C

- Providing improved signal-to-noise ratio through superior acoustics on rough surfaces such as castings, rough bar stock and fiberglass
- Gel viscosity remains in place for overhead and vertical surfaces



SoniX™

Best choice for a low-cost general purpose ultrasonic couplant

Operating Range: 18° to 120°F / -8° to 50°C

- Strong coupling film, salt stable
- Good ferrous corrosion inhibition
- Compatible with most metals, plastics and composites
- Water-soluble



Glycerin

GE Approved Glycerol, Batch 205 for CFM56-7B engine fan blades

Operating Range: 65° to 500°F / 18° to 260°C

- Packaged from USP glycerin, 99+%
- High acoustic impedance
- Will not harden on equipment
- Pumpable fluid
- Compatible with plastics



Echo Shear Wave™

Transmits normal incidence shear wave

Operating Range: 40° to 90°F / 4° to 32°C

- Couples shear wave and guided wave
- Water-soluble
- Easily removed with water wash

Echo 8 ZH™

For flow metering and long term monitoring at elevated temperatures

Operating Range:

Short Term: -45° to 750°F / -42° to 398°C

Long Term: -45° to 400°F / -42° to 204°C

- Enhanced acoustic impedance
- Reduces acoustic noise from rough surfaces

Echo Z+™

High acoustic impedance

Operating Range: 0° to 200°F / -18° to 93°C

- Ideal for rough, pitted surfaces and concrete
- Pencil Point and shear wave inspections
- Five viscosities

Forever Wedge™

Operating Range: -50° to 700°F / -45° to 371°C

- Facilitates more reproducible inspections, less artifacts and longer wedge coupling.
- High viscosity fluid couplant for use between phased array and angle beam transducers and the wedge.

EchoMix® Single Powder

Operating Range: 32° to 120°F / 0° to 50°C

- 1-part powder mix
- Easily mixed in water
- Salt resistant
- Compact for shipping & storage



AeroSoniX™ Drone Couplant

Operating Range: -50° to 775°F / 45° to 412°C

- High temperature UT couplant that pumps like a fluid, stays in place like a gel.
- Broad temperature range.
- No residue, varnish or corrosion in drone pumps.



High Temperature Couplants

Operating range is printed on every label of Echo's high temperature couplants

VersaSonic®

Best general purpose, high temperature couplant

Operating Range: -10° to 700°F / -23° to 371°C

Auto Ignition: 788°F / 420°C

- Excellent high temperature transducer lubricant, extends transducer life
- Two viscosities: medium and high
- Fast response, no wait time
- Does not contain peanut oil, silicone oil or plastic polymer



HiTempco™+

No residue, fast response

Operating Range: -50° to 850°F / -45° to 455°C

Auto Ignition: 894°F / 479°C

- Fast response, no wait time
- No residue or varnish
- Less smoke
- No plastic polymer or char
- Excellent corrosion inhibition



EchoTherm™

Excellent performance

Operating Range: -40° to 1250°F / -40° to 675°C

Auto Ignition: 1300°F / 704°C

- Ultra-high temperature
- Instantaneous readings
- Longer acoustic window
- Delivers a stronger signal on rough pitted surfaces.
- Leaves plastic residue (char)



EchoTherm Extreme™

The best – no residue, instant, stable response to 1250°F

Operating Range: -40° to 1250°F / -40° to 675°C

Auto Ignition: 1300°F / 704°C

- Ultra-high temperature
- Fast response, no wait time
- No plastic polymer
- No plastic char residue



Fluid Couplants for AUT and Robotic UT Inspections

Echo 8 HT™

Most universal AUT fluid

Operating Range: -50° to 800°F / -45° to 425°C

Pumpable Range:

Grade 1: 30° to 800°F / -1° to 425°C

Grade 4: 50° to 800°F / 10° to 425°C

Auto Ignition: 850°F / 454°C

- Three viscosities
- Little or no residue
- Provides excellent corrosion inhibition on ferrous metals
- Silicone-based



Echo 6 HT™

Operating Range: -40° to 675°F / -40° to 357°C

Pumpable Range: 0° to 675°F / -18° to 357°C

Auto Ignition: 789°F / 421°C

- Replacement for peanut, canola and mineral oils
- No sticky film, varnish or smoke
- Reduced risk of under-insulation cracking
- Low cost silicone-based fluid

Echo 3 HT™

Operating Range: -30° to 350°F / -34° to 177°C

Pumpable Range: 35° to 350°F / 2° to 177°C

Auto Ignition: 628°F / 331°C

- Water-soluble
- No need to remove
- Least expensive intermediate temperature fluid

EchoFLOW™

Operating Range: -40° to 150°F / -40° to 65°C

Pumpable Range: -40° to 150°F / -40° to 65°C

- Can be pumped in extreme cold
- Environmentally safe
- Approved for use in the Tundra
- Water-soluble



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