

ECHO[®]GEL ultrasonic couplant

An industry standard since 1974, Echogel is an economically priced couplant for flaw inspection and thickness gaging for volume use. Echogel resists viscosity breakdown on salt-caked boiler surfaces.

Temperature Operating Range

27° to 175°F (3° to 79°C)

Available Winterized to -20°F

Benefits

- Outstanding wetting capabilities; will quickly wet oily or dirty surfaces
- Remains stable on corrosion or salt cake, and is recommended for inspection of power generating boilers when salt cake is present
- Available "winterized" to a working temperature of -20°F (29°C)

Safety

- Non-flammable, non-irritating
- Contains NO hydrocarbons, oils, or glycerine

Chemical Analysis and Certification

Independent laboratory analysis of Chlorides and Sulfur referencing ASTM procedures is furnished with each shipment at *no additional charge*.

Removal

- Water-soluble; easily removed with a water rinse

Chemistry

Total Halogens.....<50 ppm

Sulfur.....<50 ppm

Packaging

1-gallon (4 liter) container

5-gallon (18.9 liter) container

15-gallon (56.8 liter) drum

55-gallon (208.2 liter) drum

Corrosion Inhibition

A basic premise in NDT is that it must be truly nondestructive. The couplant must not cause detrimental metallurgical damage to the part through corrosion. Sonotech has developed a sensitive ferrous corrosion test and rating system for our couplants that evaluates both surface and crevice corrosion.

- Echogel contains a ferrous corrosion inhibitor with a relative effectiveness rating of 70 (refer to Sonotech's Quantitative Ultrasonic Couplant Comparison Chart - call for a copy) and is compatible with most composites and metals.
- Echogel meets ASTM F519 Hydrogen Embrittlement specifications for high strength steel.

Properties¹

Viscosity

Grade 10 (low).....~3,000 cps (Brookfield LV Spindle #4 @ 60 rpm)

Grade 14 (medium).....~25,000 cps (Brookfield LV Spindle #4 @ 6 rpm)

Grade 20 (high).....~75,000 cps (Brookfield LV Spindle #4 @ 6 rpm)

Grade 30 (semisolid).....~160,000 cps (Brookfield LV Spindle #5 @ 6 rpm)

Velocity1.55[±].05 mm/μsec

Acoustic Impedance Gr. 20.....1.60[±].05 MRayls

pH7.5 to 9.0

¹At ambient temperature.



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