

ECHO GEL[®] ultrasonic couplant



Echogel is an economically priced couplant that resists viscosity breakdown on salt-caked boiler surfaces and on corroded pipe or structural steel.

Temperature Operating Range

27° to 140°F (-3° to 60°C)

Benefits

- Enhanced 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
- Does not contain glycerine

Safety

- Non-flammable, non-irritating
- Contains NO hydrocarbons or petroleum distillates

Removal

The polymer (thickening agent) in Echogel will form a film if allowed to dry on the part. If complete removal of couplant is required, do so before the film has dried, with a water rinse or a water and brushing combination. If allowed to dry, and a film forms, it can be removed by pressure washing, preferably with hot water, immersing the part in water until the film rehydrates and can be washed or brushed off, or wire brushing or sand blasting.

Chemical Analysis and Certification

Independent laboratory analysis of Chlorides and Sulfur referencing ASTM procedures is furnished with each shipment at no additional charge and is available at www.sonotech-inc.com

Total Halogens..... <50 ppm
Sulfur..... <50 ppm

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 65, and is compatible with most composites and metals. Ferrous Corrosion Characteristics Chart available at <http://www.sonotech-inc.com>.

Properties

Viscosity (*At ambient temperature*)

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)
Velocity	1.55 [±] .05 mm/μsec
Acoustic Impedance Gr. 20.....	1.60 [±] .05 Mrayls
pH	7.5 to 9.0

Echogel has been tested and approved to:

- NAVSHIPS MIL-STD 767 and 2041
- ASTM F519 (Hydrogen Embrittlement of low alloy high strength steel)
- BAC 5439-PSD622 (composites)

Packaging (Grades 14 and 20)

1-gallon (4 liter) container
5-gallon (18.9 liter) container
15-gallon (56.8 liter) drum
55-gallon (208.2 liter) drum

Grade 10 is only available in 55-gallon drums
Grade 30 is available by custom order only in 55-gallon drums (minimum order three drums)



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