

SONOTRACE[®] ultrasonic couplant



Sonotrace is a moderately priced, ambient temperature water-based, glycerine-free couplant for flaw detection and thickness gaging where Halogens, Sulfur and low melting point metals must be kept to a minimum.

Temperature Operating Range

25° to 175°F (-4° to 79°C)

Benefits

- Contains humectants to retard drying
- Offers good wetting ability and ferrous corrosion resistance
- Maintains a good price to performance ratio
- Does not contain glycerine

Sonotrace is available in two viscosity grades: 30 and 40.

Safety

- Non-flammable and non-irritating
- No silicones, cellulose, or petroleum distillates
- No heavy metals incorporated into formula

Removal

- Water soluble; easily removed with water

Chemical Analysis and Certification

Independent laboratory analysis of Chlorine and Sulfur referencing ASTM procedures is furnished with each shipment at no additional charge and is available at <http://www.sonotech-inc.com>.

Sonotrace 30 & 40

Total Halogens.....<50 ppm

Sulfur.....<50 ppm

Acoustic Transmission

Optimal transmission requires that an ultrasonic couplant have no air bubbles that can reflect, scatter, and attenuate sound waves. Sonotech's unique processing eliminates couplant air bubbles.

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.

- Sonotrace contains a ferrous corrosion inhibitor with a relative effectiveness rating of 80, and is compatible with most composites and metals. Ferrous Corrosion Characteristics Chart available at <http://www.sonotech-inc.com>.

Sonotrace has been tested and approved to:

- Boeing Specifications BAC 5968 (adhesive bonds), BAC 5980 (composites)

Properties

Viscosity¹

- Grade 30 (medium).....~65,000 cps (Brookfield Helipath Spindle E @ 1.5 rpm)
- Grade 40 (high).....~125,000 cps (Brookfield Helipath Spindle E @ 1.5 rpm)

Velocity..... 1.50[±].05 mm/μsec

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

pH7.8[±].5

¹At ambient temperature.

Packaging

12ea x 12 oz (340g) carton

1-gallon (4 liter) container

5-gallon (18.9 liter) container

15-gallon (56.8 liter) drum

55-gallon (208.2 liter) drum



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