

SONOTRACE[®] ULTRASONIC COUPLANT

GENERAL DESCRIPTION

Sonotrace[®] is a glycerine and silicon-free, water-based couplant formulated for flaw detection and thickness gauging applications where halogens, sulfur and low melting point materials must be kept to a minimum. It comes in two viscosities, low viscosity fluid and very high viscosity gel.

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
- Does not contain glycerine

TYPICAL PROPERTIES (at ambient temperature)

Typical Properties	Sonotrace [®]
Viscosity (Brookfield LV Helipath Spindle E @ 1.5 rpm)	
Grade 30 (Medium)	~65,000 cps
Grade 40 (High)	~125,000 cps
Velocity	1.50 ± .05 mm/μsec
pH	7.8 ± .5
Total Halogens	<50 ppm
Sulfur	<50 ppm

SAFETY

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

REMOVAL

Water soluble; easily removed with water.

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

Sonotrace[®] contains a corrosion inhibitor for ferrous metals with a relative effectiveness rating of 80 and is compatible with most composites and metals. Ferrous Corrosion Characteristics Chart available at:

<http://www.magnaflux.com>.

PACKAGING**Grade 30**

- 1 Gal. (4 Liter) Container
- 5 Gal. (18.9 Liter) Container
- 55 Gal. (208.2 Liter) Drum

Grade 40

- 1 Gal. (4 Liter) Container
- 5 Gal. (18.9 Liter) Container
- 55 Gal. (208.2 Liter) Drum