

## SOUNDSAFE<sup>®</sup> ULTRASONIC COUPLANT

### GENERAL DESCRIPTION

Soundsafe<sup>®</sup> offers a high performance couplant for use in overhead, vertical and horizontal applications where environmental concerns are a primary consideration.

### TEMPERATURE OPERATING RANGE

0° to 200°F (-18° to 93°C)

### BENEFITS

- Environmentally benign formula
- Increased acoustic impedance for reduced surface noise
- Good surface wetting capability
- Gel viscosity holds on most overhead and vertical surfaces
- Corrosion inhibiting system for ferrous based materials

### TYPICAL PROPERTIES (at ambient temperature)

Typical Properties	Soundsafe <sup>®</sup>
Viscosity	~80,000 cps (Brookfield Helipath Spindle E @ 1.5 rpm)
Velocity	1.60 to 1.65 mm/μsec
Acoustic Impedance	1.70 to 1.75 MRayls
pH	7.8± .5
Total Halogens	<50 ppm
Sulfur	<50 ppm
Glycerine	Contains Glycerine

### SAFETY

Non-flammable and non-irritating. Contains no heavy metals, harsh surfactants, glycol ethers, nitrites, silicones, dyes or fragrances.

### 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<sup>®</sup>'s unique processing eliminates couplant air bubbles.

**CORROSION INHIBITION**

Soundsafe<sup>®</sup> contains a corrosion inhibitor for ferrous metals with a relative effectiveness rating of 75 and is compatible with most composites and metals. Ferrous Corrosion Characteristics Chart available at: <http://www.magnaflux.com>.

**SPECIFICATION COMPLIANCE:**

PWA 36700/36604 Hot corrosion testing on High Temperature Alloys, AMS 5544 (Waspalloy), 5536 (Hastelloy X), 6359 (Ferrous based alloys), 4037 (Aluminum), 5608 (Haynes 188), 5508 (Greek Ascoloy) and 4375 (Mag- nesium) and on gas turbine blade coatings, PWA 286 and 275, Pratt and Whitney PWA 36604, MCL E-205 Type II or ASTM F945, Stress Corrosion Cracking testing on Titanium Alloys.

**PACKAGING**

- 1 Gal. (4 Liter) Container
- 5 Gal. (18.9 Liter) Container
- 55 Gal. (208.2 Liter) Drum
- 4 oz. (120 mL) Bottle (12 Pack)
- 12 oz. (355 mL) Bottle (12 Pack)