



## SOUNDSAFE® ULTRASONIC COUPLANT

### GENERAL DESCRIPTION

Soundsafe® 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®
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's unique processing eliminates couplant air bubbles.

## **CORROSION INHIBITION**

Soundsafe® 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 (Magnesium) 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)