

SOUNDSAFE[®] ultrasonic couplant



NSN 6850-01-157-4348

ENVIRONMENTALLY BENIGN



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
- Slow drying with excellent transducer lubrication
- Gel viscosity holds on most overhead and vertical surfaces
- Corrosion inhibiting system for ferrous based materials

Safety

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

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. Spectrochemical, Graphite Furnace, Atomic Absorption analysis, or heavy metal certification is available for an additional charge.

Halogens (as Chlorides).....<50 ppm
Sulfur..... <50 ppm
Contains Glycerine

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 ferrous corrosion inhibitor with a relative effectiveness rating of 75, and is compatible with most composites and metals. Ferrous Corrosion Characteristics Chart available at <http://www.sonotech-inc.com>.

Soundsafe has been tested and approved to:

- 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

Properties¹

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

¹At ambient temperature.

Environmental Awareness

Sonotech developed environmentally benign couplants to minimize impact on the environment. Soundsafe contains biodegradable materials, safe for disposal. The likelihood of skin irritation has been reduced through the use of cosmetic grade ingredients. Environmentally benign couplants are designed specifically for applications where couplant may be removed by weather, or could come into contact with animals, humans, and waterways.

Packaging

12ea x 4 oz (100g) carton
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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