Soundsafe

Ultrasonic Couplant

Soundsafe® is a high-performance, general-purpose ultrasonic couplant for flaw detection and sizing, thickness gauging, flow metering and acoustic emission testing.

This medium viscosity gel couplant is well known for its outstanding performance, excellent corrosion protection, thixotropic properties and comprehensive range of specifications and approvals.

Soundsafe is Pratt & Whitney approved and meets nuclear grade specifications for halogen and sulfur levels.

BENEFITS

- Wide range of specifications and approvals
- Great surface wetting
- Thixotropic gel
- Non-toxic, non-irritating formula
- Increased acoustic impedance reduces surface noise
- Good surface wetting for fast, even coverage
- Clings well to most vertical and overhead surfaces
- Highest corrosion inhibition
- Provides good transducer lubrication
- Slower drying for extended inspection time
- Nuclear grade
- Aerospace approvals
- Hydrogen embrittlement testing

APPLICATIONS

Defect location: subsurface

Ideal for:

- Flaw detection
- Thickness gauging
- Flow metering
- Acoustic emission testing
- Vertical or overhead surfaces
- Bridge pins, welds, anchor bolts
- Weld inspection
- Rough surfaces
- Fiberglass
- Plastic
- Titanium
- Aerospace inspections
- Nuclear inspections

SPECIFICATION COMPLIANCE

- API
- ASTM F519
- ASME
- AWS
- ASTM F945
- PWA 36604
- Pratt & Whitney PMC 4385

PROPERTIES

Appearance	Transparent gel
Color	Colorless
Comparative Viscosity*	5.25
Silicone	No
Glycerin	Yes
Propylene Glycol	Yes
Halogens	< 50 ppm
Sulfur	< 50 ppm
Water Soluble	Yes

* Subjective measure, 0–10 scale where 0 = water, 5 = medium gel, 10 = very thick paste

USE RECOMMENDATIONS

NDT Method	Ultrasonic Testing
Required Equipment	UT equipment, transducer
Temperature Range†	0 to 200°F / -18 to 93°C
Compatibility	Most composites and metals

† Couplant integrity and acoustic performance may decline beyond these temperature limits.

INSTRUCTIONS FOR USE

Apply a small amount of couplant to the transducer or inspection area before measurement.

REMOVAL

Remove couplant immediately after inspection before the couplant dries with water rinse or a combination of water rinse and brushing.

A difficult-to-remove film may form if the couplant is allowed to dry before removal. Remove film by pressure washing, wire brushing or immersing the part in water until the couplant rehydrates and can be washed or brushed off.

STORAGE

Store couplant in the original container. Do not freeze. Store out of direct sunlight. Keep container closed when not in use. Never put unused couplant back into the original storage container. If pumps or valves are used to dispense bulk couplant, wash them thoroughly between drums to avoid contaminating new product. Refer to Safety Data Sheet for additional storage instructions.

PACKAGING

1 gal / 3.78 L cubitainer	20-901
5 gal / 18.9 L cubitainer	20-905
55 gal / 208 L drum	20-955

HEALTH AND SAFETY

Review all relevant health and safety information before using this product. For complete health and safety information, refer to the product Safety Data Sheet, which is available at **www.magnaflux.com**.