

THERMASONIC[®] mid-temperature ultrasonic couplant

ENVIRONMENTALLY BENIGN

Thermasonic has applications in thickness gaging, flow metering, and acoustic emission testing where long dwell time and water solubility are required.

Temperature Operating Range:

0° to 325°F (-18° to 163°C)

Benefits

- Slow evaporation rate, excellent for longer applications
- Water-free, yet completely water-soluble
- Environmentally benign and biodegradable

Safety

- Non-flammable, non-irritating, orally nontoxic
- Contains NO water, glycerine, humectants, solvents, heavy metals, harsh surfactants, glycol ethers, nitrites, silicones, dyes or fragrances.

Removal

- Can be completely removed with a mild detergent and a water wash or spray.

Chemical Analysis and Certification

Independent laboratory analysis of Chlorine and Sulfur referencing ASTM procedures is provided at no additional charge.

Chemistry

Total Halogens..... <150 ppm
Sulfur..... <150 ppm

Packaging

1-gallon (4 liter) container

Corrosion Inhibition

Thermasonic couplant contains a corrosion inhibitor for steel with a relative effectiveness rating of 85 (refer to Sonotech's Quantitative Ultrasonic Couplant Comparison Chart - call for a copy) and is compatible with aluminum and titanium alloys.

Environmental Awareness

Sonotech developed environmentally benign couplants to minimize impact on the environment. Thermasonic 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 not be removed by the inspector, may later be removed by weather, or could come into contact with animals, humans, and waterways.

Properties¹

Viscosity (Brookfield LV #5 @1.5 rpm)
Grade 8 (fluid/med. visc.)..... ~20,000 cps
Grade 25 (fluid/high visc.)..... ~140,000 cps
Grade 60 (stable gel)..... ~600,000 cps
Velocity..... 1.35± .05 mm/μsec
Acoustic Impedance..... 1.45± .05 MRayls
Auto Ignition temperature..... 720°F (382°C)

¹At ambient temperature.



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