

THERMASONIC[®] mid-temperature ultrasonic couplant

ENVIRONMENTALLY BENIGN



Thermasonic is a water and humectant-free couplant used for applications in flaw detection and thickness gaging where solubility is required. Thermasonic has excellent corrosion inhibiting characteristics on most metals.

Temperature Operating Range:

0° to 325°F (-18° to 163°C)

Benefits

- Excellent wetting and slow evaporation rate
- Water-free, yet completely water-soluble
- Lubricious; will not run or drip
- Excellent corrosion inhibition
- 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 water wash or spray.

Chemical Analysis and Certification

Independent laboratory analysis of Chlorine and Sulfur referencing ASTM procedures is provided with each shipment at no additional charge and at www.sonotech-inc.com

Total Halogens..... <200 ppm
Sulfur..... <150 ppm

Conductivity

<0.1 Micro-Siemens

Corrosion Inhibition

- Thermasonic contains a corrosion inhibitor for ferrous metals with a relative effectiveness rating of 80 and is compatible with aluminum and titanium alloys. Ferrous Corrosion Characteristics Chart available at <http://www.sonotech-inc.com>.

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.

Properties (At ambient temperature)

Viscosity (Brookfield LV #5 @1.5 rpm)

Grade 8 (fluid/med. visc.)..... ~20,000 cps
Grade 60 (stable gel)..... ~600,000 cps

Velocity..... 1.35± .05 mm/μsec
Acoustic Impedance..... 1.45± .05 MRayls

Flash Point and Auto Ignition

Sonotech provides the flash point and auto-ignition temperature for each high temperature product.

- The **Flash Point** of a product is the lowest temperature at which vapors arising from the product will ignite momentarily when exposed to a flame.
- **Auto Ignition** is the temperature at which a substance ignites without other sources of energy.

The system for flash point determination for high temperature products (>680°F/360°C) utilizes the Cleveland Open Cup test in which vapors are allowed to escape and therefore results in a higher temperature than a closed cup test.

Auto Ignition temperature..... 720°F (382°C)
Cleveland Open Cup Flash Point... >390°F (299°C)²
² Thermasonic Grade 60

Packaging

1-gallon (4 liter) container (**Grade 8** custom order - minimum 2 gallons)



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