

# THERMOSONIC<sup>®</sup> MID-TEMPERATURE ULTRASONIC COUPLANT

## GENERAL DESCRIPTION

Thermosonic<sup>®</sup> has been formulated for use where rapid wetting, slow drying, broad temperature range (0° to 325°) and easy water removal are required. It is environmentally benign, offers excellent corrosion inhibition, resists running and dripping, and has a slow evaporation rate.

## 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

## TYPICAL PROPERTIES (at ambient temperature)

Typical Properties	Thermosonic <sup>®</sup>
Viscosity (Brookfield LV #5 @ 1.5	
Grade 8 (fluid/med. viscosity)	~20,000 cps
Grade 60 (stable gel)	~600,000 cps
Velocity	1.35± .05 mm/μsec
Acoustic Impedance	1.45± .05 MRayls
Flash Point <sup>1</sup>	>390°F (299°C)
Auto Ignition Temperature <sup>2</sup>	>720°F (382°C)
Total Halogens	<200 ppm
Sulfur	<150 ppm

<sup>1</sup>The lowest temperature at which vapors arising from the product will ignite momentarily when exposed to a flame. 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.

<sup>2</sup>The temperature at which a substance ignites without other sources of energy.

## SAFETY

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

**REMOVAL**

Can be completely removed with a water wash or spray.

**CONDUCTIVITY**

<0.1 Micro-Siemens

**CORROSION INHIBITION**

Thermasonic<sup>®</sup> contains a corrosion inhibitor for ferrous metals with a relative effectiveness rating of 85 and is compatible with aluminum and titanium alloys. Ferrous Corrosion Characteristics Chart available at: <http://www.magnaflux.com>.

**ENVIRONMENTAL AWARENESS**

Sonotech developed environmentally benign couplants to minimize impact on the environment. Thermasonic<sup>®</sup> contains biodegradable materials that are 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.

**PACKAGING Grade 8**

1 Gal. (4 Liter) Container (Minimum Order of 2)

**Grade 60**

1 Gal. (4 Liter) Container