

# GEL 3000<sup>®</sup> ultrasonic couplant with fluorescent tracer



**ENVIRONMENTALLY BENIGN**



Gel 3000 contains a fluorescent tracer that enables the inspector to monitor transducer overlap and ensure complete coverage and removal by illumination with ultraviolet light. Gel 3000 is water and humectant-free.

Temperature Operating Range:  
0° to 325°F (-18° to 163°C)

## Benefits

- Contains fluorescent tracer to monitor scan overlap, application and removal using ultraviolet light
- Excellent wetting properties and slow evaporation rate
- Lubricious; will not run or drip
- Water-free, yet completely water-soluble.
- Environmentally benign formula
- Excellent corrosion inhibition characteristics and is compatible with magnesium.
- Low electrical conductivity.

## 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 at no additional charge.

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

Conductivity  
< 0.1 Micro-Siemens

## Corrosion Inhibition

Gel 3000 couplant has low corrosion potential with a rating of 80 on titanium, aluminum, steel and its alloys, and magnesium. Ferrous Corrosion Characteristics Chart available at <http://www.sonotech-inc.com>.

## Environmental Awareness

Sonotech developed environmentally benign couplants to minimize impact on the environment. Gel 3000 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

Viscosity<sup>1</sup> (Brookfield LV #5 @1.5 rpm)  
Grade 60 (stable gel)..... ~600,000 cps  
Velocity..... 1.35± .05 mm/μsec  
Acoustic Impedance..... 1.45± .05  
MRays  
<sup>1</sup> At ambient temperature.

Gel 3000 has been tested and approved to:

- ASTM F519-05 (Hydrogen Embrittlement of low alloy high strength steel) and ASTM 945 or PWA 36604, MCL E-205 Type II

## Packaging

1-gallon (4 liter) container

