SONOGLIDE® liquid ultrasonic couplant

ENVIRONMENTALLY BENIGN

SonoGlide is recommended for use in flaw detection on smooth surfaces such as boilers, aircraft, turbine rotors, tank cars, finished bar stock and machined forgings or in thickness gaging where a thin liquid film of couplant is desired. SonoGlide is ideal for use with food processing machinery and pharmaceutical manufacturing and storage equipment[1].

Temperature Operating Range:
-60° to 250°F (-51° to 121°C)

Benefits

- Superior replacement for propylene glycol and glycerine
- Water soluble, liquid couplant that provides excellent acoustic properties and transducer lubrication
- Extended drying time and broad operating range of SonoGlide support re-inspection of parts at a later time
- Self-leveling and provides fast, easy spreading over large areas
- Compatible with plastics and will not harden on transducers or instruments

Safety

- Non-flammable, Non-irritating, orally nontoxic
- The most environmentally benign of the extended range couplants.
- Contains NO heavy metals, harsh surfactants, glycol ethers, nitrites, silicones, dyes or fragrances

Removal

- Can be completely removed with a water spray
- Has very slow drying properties and will not solidify on transducer parts or instruments

Chemical Analysis and Certification
Independent laboratory analysis of Chlorine and Sulfur referencing ASTM procedures is provided for both products at no additional charge.

SonoGlide is available in two versions:

SonoGlide UP (Ultra Pure): for all non-ferrous metals

- Formulated for non-ferrous applications including titanium, aluminum, copper, stainless steel and ferrous-based metals where corrosion is not a concern.
- Use where low levels of halogen and sulfur are critical and/or where superior temperature range and very slow drying characteristics are desired.
- SonoGlide UP reduces potential skin irritation caused by the ferrous corrosion inhibitor in SonoGlide FE.

SonoGlide FE: for ferrous metals where short-term corrosion is a concern

- For use with cast iron, steel and its alloys. SonoGlide FE remains stable on corroded or salt covered surfaces and is recommended for boiler inspection when salt cake is present.
- ***Corrosion Inhibition:*** There is low short-term corrosion potential with SonoGlide FE on cast iron, steel and its alloys.

Chemistry

SonoGlide UP
Total Halogens.....<20 ppm
Sulfur.....<1 ppm

SonoGlide FE
Total Halogens.....<50 ppm
Sulfur.....<50 ppm

Properties

Viscosity
Grade 7.....<1,000 cps
(Brookfield LV #4 @ 60 rpm)
Grade 10.....~2,500 cps
(Brookfield LV #2 @ 6 rpm)
Grade 20..... ~25,000 cps
(Brookfield LV#4 @12 rpm)
Grade 40..... ~80,000 cps
(Brookfield LV#4 @1.5 rpm)
pH (UP).....6.6
pH (FE).....10.3

[1] SonoGlide UP grade manufactured with FDA listed ingredients (21CFR Part 172).

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