SONO 1100 extreme temperature ultrasonic couplant

Sono 1100 provides coupling for thickness gaging and flaw inspection at extreme temperatures. Sono 1100 will maintain acoustic coupling beyond 15 seconds to give ample time to obtain good thickness readings. In most cases, the signal strength increases with time to the point of thermal decomposition.

Temperature Operating Range

Thickness Gaging: 700° to 1100°F (371° to 593°C)
Flaw Inspection: 700° to 900°F (371° to 482°C)

Benefits

- Provides an extended open time window for longer inspections.
- Non-toxic, non-irritating formula provides inspector safety

Safety

- Non-toxic, non-irritating, biodegradable
- Smokes less at elevated temperatures than most high temperature coupling materials
- Contains NO perfluorocarbons or fluorinated material, which can cause adverse health effects at high temperatures

Chemistry

Total Halogens..... <250ppm
Sulfur..... <500ppm

Properties

[1] *At ambient temperature.*

Viscosity[1]
Thin Paste.....>3,000,000 cps
(Brookfield LV #5 @ 0.3 rpm)
Auto Ignition temperature.....1160°F (626°C)

Packaging

2-oz (50 g) tube
4-oz (100 g) tube
quart (liter)
gallon (4-liter)

Extreme Temperature Guidelines

- *For best results, allow a few seconds of "melt-time" before taking temperature reading. Signal attenuation may occur if used at lower than recommended temperature.*
- *A couplant's upper temperature range for short duration thickness gaging is higher than when used for flaw detection.*
- *When testing on vertical or overhead surfaces, a thicker grade of couplant is likely to stay in place, but thinner grade generally performs better on flat surfaces.*
- *No Sonotech couplants contain perfluorocarbons; thus "polymer plume fever" is not an operator hazard.*

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 (>680ºF/360ºC) 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.

- ***For the flash point of Sono 1100 please reference the MSDS on opposing side.***
