

High Temperature Comparison Chart

Sonotech manufactures a wide variety of couplants for flaw detection, thickness gaging, flow metering, and acoustic emission testing at extreme temperatures. Some of the products listed below have proven themselves over 25 years. Sonotech couplants do NOT contain perfluorocarbons such as in many "high temperature" greases; thus "polymer plume fever" is not an operator hazard with Sonotech couplants.

		VISCOSITY (centipoise)	AUTO- IGNITION
THERMASONIC® Water-free formula for flaw inspection, thickness gaging, flow metering, and acoustic emission testing where long inspection time and/or water solubility are required.	<ul style="list-style-type: none"> • Excellent wetting and slow evaporation • Water-free, yet completely water-soluble • Lubricious; will not run or drip • <150 ppm Halogens and Sulfur 	Gr. 8: 20k Gr. 25: 140k Gr. 60: 600k	720°F 382°C
SONO 600 Biodegradable formula for thickness gaging, acoustic emission testing, and flaw inspection in petrochemical, power generating and with food processing machinery, pharmaceutical manufacturing and storage equipment	<ul style="list-style-type: none"> • Excellent corrosion inhibition • Very slow drying; allows for long term coupling without reapplication • Economical alternative to silicone based couplants • Very low toxicity • <150 ppm Halogens and Sulfur 	Base Fluid: 80 Fluid: 2.5k Gel: 500k	Fluid: 860°F/460°C Gel: 935°F/ 501°C
SONOTEMP® Useful in high temperature thickness gaging and may be applied to any ultrasonic procedure where elevated temperature presents sound coupling difficulties, such as long-term flow metering.	<ul style="list-style-type: none"> • Resists drying; best choice for long-term flow metering • Maintains paste-like viscosity throughout its effective operating range. • Low toxicity, non-irritating • <100 ppm Halogens and Sulfur 	>4,000k	1065°F 574°C
PYROGEL® High coupling over a wide temperature range for thickness gaging, flow metering, acoustic emission testing, and flaw inspection.	<ul style="list-style-type: none"> • Broadest temperature range • Resists drying; good choice for long term flow metering. • Less smoke • <100 ppm Halogens and Sulfur 	Base Fluid: 620 Gr. 25: 150k Gr. 60: 550k Gr. 100: >4,000k	Grade 25: 960°F/ 515°C
SONO 900 Rapid coupling for thickness gaging and flaw inspection.	<ul style="list-style-type: none"> • Fast melting for quick readings • High viscosity, gritty paste • Used worldwide since 1977 	>4,000k	990°F 532°C
SONO 950 Sono 950 will maintain acoustic coupling beyond 15 seconds to give ample time for obtaining good thickness readings in thickness gaging and flaw inspection.	<ul style="list-style-type: none"> • Provides an extended time window for longer inspections • Non-toxic, non-irritating formula provides inspector safety • Medium viscosity paste 	>3,000k	1040°F 560°C
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 for obtaining good thickness readings.	<ul style="list-style-type: none"> • Provides an extended time window for longer inspections • Non-toxic, non-irritating formula provides inspector safety • Highest temperature rating • Less smoke • Medium viscosity paste 	>3,000k	1160°F 626°C