



"Sonotech® ultrasonic couplants helped us to redefine our expectations in terms of the level of results achievable in our NDT inspection process."

redefine



The Sonotech® line of ultrasonic NDT couplants offers outstanding couplants with precisely formulated properties to maximize inspection results.

Enhancing Results

GENERAL PURPOSE COUPLANTS

Ultragel® II (Silicone Free)

Ultragel® II has been recognized as the industry's most specified and used ultrasonic couplant for more than 35 years. It possesses outstanding acoustic performance, chemical characteristics and corrosion inhibition and is ideal for flaw detection, thickness gauging, flow metering and acoustic emission testing across a broad temperature boundary (-10° to 210° F). Ferrous corrosion inhibition rating of 90.

Specification Compliance: ASTM F519, F945, 5968, 5980, Pratt & Whitney PWA 286, 275, 1484, 36604, 36700, MCL E-205 Type II (ASTM F945), AMS 5544, 5536, 6359, 4037, 5608 (Haynes 188), 5508, 4375.

Part Number & Container Size:

25-901	1 Gal.	25-904	4 oz. Bottle (12-pack)
25-905	5 Gal.	25-912	12 oz. Bottle (12-pack)
25-955	55 Gal.		



Sonotrace® (Glycerine Free)

Sonotrace® is a glycerine and silicone-free, water-based couplant formulated for flaw detection and thickness gauging applications where halogens, sulfur and low melting point metals must be kept to a minimum. It comes in two viscosities, low viscosity fluid and very high viscosity gel, and has an operational temperature range of 25° - 175° F. Ferrous corrosion inhibition rating of 80.

Part Number & Container Size:

Grade 30

42-901	1 Gal.	42-955	55 Gal.
42-905	5 Gal.		

Grade 40

43-901	1 Gal.	43-955	55 Gal.
43-905	5 Gal.		



NDT ULTRASONIC COUPLANTS

Whether your requirements include meeting halogen, sulfur and low melting point specifications for the nuclear power industry, or high level environmental and acoustical standards, you will find all your needs well met by an industry leading Sonotech® couplant. Available in four categories; General Purpose, Environmentally Benign, High Temperature and Speciality Application, along with pack sizes to meet every testing need, Sonotech® brand couplants and support staff are dedicated to bringing ease, consistency and unparalleled results to your NDT inspection process.

Echogel® (Glycerine Free)

Echogel® is a glycerine and silicone-free couplant formulated for use in inspections where salt cake or metal corrosion salts are present. It resists viscosity breakdown on salt-caked boiler surfaces and other corroded materials and contains a ferrous corrosion inhibitor with a relative effectiveness rating of 65. Operating temperature range: 27° to 140° F.

Specification Compliance: ASTM F 519, NAVSHIPS MIL-STD-767 and 2041.

Part Number & Container Size:

Grade 14

47-901	1 Gal.	47-955	55 Gal.
47-905	5 Gal.		

Grade 20

48-901	1 Gal.	48-955	55 Gal.
48-905	5 Gal.		



Soundsafe®

Soundsafe® is a silicone-free, environmentally benign high-performance couplant formulated for use in overhead vertical and horizontal applications where concern for the environment is a primary consideration. It possesses high humectant levels to slow drying, increase acoustic impedance and provide transducer lubrication. Soundsafe® contains ferrous corrosion inhibitors with a relative effectiveness rating of 75.

Soundsafe® has an operating temperature range of 0° - 200° F and is compatible with most composites and metals, except magnesium and magnesium alloys which should be pretreated before use.

Specification Compliance: ASTM F 945, 5968, 5980, Pratt & Whitney PWA 286, 275, 1484, 36604, 36700, MCL E-205 Type II (ASTM F945), AMS 5544, 5536, 6359, 4037, 5608 (Haynes 188), 5508, 4375.

Part Number & Container Size:

20-901	1 Gal.	20-904	4 oz. Bottle (12-pack)
20-905	5 Gal.	20-912	12 oz. Bottle (12-pack)
20-955	55 Gal.		



Sonoglide® FE (Silicone Free)

Sonoglide® FE is an environmentally benign, silicone-free couplant specially formulated for ferrous metals where short-term corrosion is a concern. It contains a ferrous corrosion inhibitor with a relative effectiveness rating of 75, is slow drying and will remain stable on corroded or salt covered surfaces. Operating temperature range: -60° to 250° F.

Part Number & Container Size:

Grade 20

82-901	1 Gal.
82-955	55 Gal.





Sonoglide® UP (Ultra-Pure)

Sonoglide® UP is an ultra-pure, environmentally benign, silicone-free couplant that is compatible with titanium, aluminum, copper, stainless steel, plastics, many magnesium alloys, and many composites. It is the perfect choice for applications where halogens and sulfur must be at a minimum and broad material compatibility, slow drying and water wash removability are desired. Operating temperature range: -60° to 250° F.

Specification Compliance: Pratt & Whitney PWA 286, 275, 1484, 36604, 36700, MCL E-205 Type II (ASTM F 945), AMS 5544, 5536, 6359, 4037, 5608 (Haynes 188), 5508, 4375, ASTM F 945.

Part Number & Container Size:

Grade 7

84-901	1 Gal.	84-955	55 Gal.
84-905	5 Gal.		

Grade 40

87-901	1 Gal.
--------	--------



Soundclear®

Soundclear® is an excellent price to performance ratio environmentally benign couplant for flaw detection and thickness gauging. It contains humectants to slow drying and increase acoustic impedance and has an operating temperature range of 20° to 200° F. Soundclear® contains a corrosion inhibitor for steel with a relative effectiveness rating of 45 and is compatible with aluminum, titanium and plastics. *It is not recommended for use with magnesium.*

Part Number & Container Size:

Grade 60

31-901	1 Gal.	31-955	55 Gal.
31-905	5 Gal.		



UT-X POWDER

UT-X Powder is a couplant concentrate useful for flaw detection and thickness gauging applications where ferrous corrosion inhibition is not a concern. It retains viscosity on salt caked boiler tubes, corroded pipe, structural steel, steel billets, plates and welds. Operating temperature range: 32° to 120° F.

Part Number & Container Size:

62-110	UT-X 1-Gal. Packet (10-pack)
62-510	UT-X 5-Gal. Packet (10-pack)



HIGH TEMPERATURE COUPLANTS

SONO

The Sonotech® family of Sono couplants comes in a wide range of temperature formulas. The biodegradable formulas have made them the leading choice for use in flaw detection, thickness gauging and acoustic emission testing in the petrochemical, power generation, food processing machinery and pharmaceutical manufacturing and storage equipment markets.

Part Number & Container Size:

Sono 600: 0 to 700°F (-18 to 371°C)

45-901 1 Gal.

45-T04 4 oz. Tube

Sono 900: 600 to 680°F (316 to 360°C)

40-901 1 Gal.

40-T04 4 oz. Tube

Sono 950: 600 to 760°F (316 to 404°C)

29-901 1 Gal.

29-T04 4 oz. Tube

Sono 1100: 700 to 775°F (371 to 413°C)

30-901 1 Gal.

30-T04 4 oz. Tube



Pyrogel®

Pyrogel® couplant offers the broadest temperature range (-50° to 800°F) for thickness gauging, flow metering, acoustic emissions testing and flaw detection. It is radiation proof, contains no polymers and resists drying, making it an excellent choice for long term flow metering applications. Ferrous corrosion inhibition rating of 100.

Part Number & Container Size:

Grade 7: -50 to 730°F (-45 to -388°C)

21-901 1 Gal. (Minimum order of 2)

Grade 100: -50 to 805°F (-45 to 429°C)

24-901 1 Gal. (Minimum order of 2)

24-T04 4 oz. Tube





SPECIALTY APPLICATION COUPLANTS

HIGH Z

High Z provides the highest acoustic impedance of all Sonotech® couplants to reduce surface noise and improve coupling performance on curved, rough, pitted and corroded surfaces. Its environmentally benign formula can be removed with water and it will often facilitate flaw inspection and thickness gauging when no other couplant will function. High Z is available in two viscosities (low viscosity and high viscosity) with an operating temperature range of 0° to 200° F. Ferrous corrosion inhibition rating of 70.

Part Number & Container Size:

High Z HV (High Viscosity)

59-T04 4 oz. Tube

High Z LV (Low Viscosity)

58-T04 4 oz. Tube



SHEAR GEL

Shear Gel is specially formulated to provide coupling for shear wave generated by normal incidence (zero degrees) shear wave transducers. It has an extremely high viscosity and an operation temperature range of 40° to 90°F. Ferrous corrosion inhibition rating of 85.

Part Number & Container Size:

54-T04 4 oz. Tube

