

Couplant Feature Comparison Chart

Product	Min. Temp ^a		Max. Temp ^a		Corrosion Inhibition ^b	Relative Viscosity ^c	Actual Viscosity (Brookfield)
	°F	°C	°F	°C			
Ultrage II	-10	-23	250	121	90	4	~80,000 cps (Helipath Spindle E @1.5 rpm)
SonoGlide Gr 7	-60	-51	250	121	75*	1	<1,000 cps (LV #4 @ 60 rpm)
SonoGlide Gr 10 ^{UP & FE}	-60	-51	250	121	75*	2	~2,500 cps (LV #2 @ 6 rpm)
SonoGlide Gr 20 ^{Grades}	-60	-51	250	121	75*	4	~25,000 cps (LV#4 @12 rpm)
SonoGlide Gr 40	-60	-51	250	121	75*	6	~250,000 cps (LV#4 @1.5 rpm)
Soundsafe	0	-18	250	121	75	4	~80,000 cps (Helipath Spindle E @1.5 rpm)
Soundclear Gr 40	20	-7	200	93	45	5	~105,000 cps (Helipath Spindle E @1.5 rpm)
Soundclear Gr 60	20	-7	200	93	45	6	~170,000 cps (Helipath Spindle E @1.5 rpm)
Sonotrace Gr 20	25	-4	190	88	90	3	~37,500 cps (Helipath Spindle E @1.5 rpm)
Sonotrace Gr 30	25	-4	190	88	90	4	~65,000 cps (Helipath Spindle E @1.5 rpm)
Sonotrace Gr 40	25	-4	190	88	90	5	~125,000 cps (Helipath Spindle E @1.5 rpm)
Echogel Gr 10	27	3	150	66	70	3	~3,000 cps (LV #4 @ 60 rpm)
Echogel Gr 14	27	3	150	66	70	4	~25,000 cps (LV #4 @ 6 rpm)
Echogel Gr 20	27	3	150	66	70	6	~75,000 cps (LV #4 @ 6 rpm)
Echogel Gr 30	27	3	150	66	70	7	~160,000 cps (LV #5 @ 6 rpm)
Echogel Winterized Gr 10	-20	-29	150	66	70	3	~3,000 cps (LV #4 @ 60 rpm)
Echogel Winterized Gr 14	-20	-29	150	66	70	4	~25,000 cps (LV #4 @ 6 rpm)
Echogel Winterized Gr 20	-20	-29	150	66	70	6	~75,000 cps (LV #4 @ 6 rpm)
Echogel Winterized Gr 30	-20	-29	150	66	70	7	~160,000 cps (LV #5 @ 6 rpm)
UT-30	32	0	150	66	45	5	~105,000 cps (Helipath Spindle E @1.5 rpm)
UT-X (Prepared)	32	0	150	66	45	5	~75,000 cps (Helipath Spindle E @1.5 rpm)
Sonocast	30	-1	130	54	90	5	~115,000 cps (Helipath Spindle E @1.5 rpm)
UT-X Powder	32	0	130	54	10	1 to 7	variable by altering water amount
UT-X/FE Powder	32	0	130	54	55	1 to 7	variable by altering water amount
Humex	32	0	130	54	45	6	~180,000 cps (Helipath Spindle E @1.5 rpm)
Thermasonic Gr BF	0	-18	325	163	85	1	~510 cps (LV #2 @ 30 rpm)
Thermasonic Gr 8	0	-18	325	163	85	3	~20,000 cps (LV #5 @1.5 rpm)
Thermasonic Gr 25	0	-18	325	163	85	5	~140,000 cps (LV #5 @1.5 rpm)
Thermasonic Gr 60	0	-18	325	163	85	7	~600,000 cps (LV #5 @1.5 rpm)
Gel 3000 Gr BF	0	-18	325	163	85	1	~510 cps (LV #2 @ 30 rpm)
Gel 3000 Gr 8	0	-18	325	163	85	3	~20,000 cps (LV #5 @1.5 rpm)
Gel 3000 Gr 25	0	-18	325	163	85	5	~140,000 cps (LV #5 @1.5 rpm)
Gel 3000 Gr 60	0	-18	325	163	85	7	~600,000 cps (LV #5 @1.5 rpm)
High Z LV	0	-18	200	93	70	3	~40,000 cps (LV #5 @ 1.5 rpm)
High Z HV	0	-18	200	93	70	8	~500,000 cps (LV #5 @ 1.5 rpm)
Shear Gel	40	4	90	32	85	7	>4,000,000 cps
Sono 600 Gr BF	0	-18	600	315	100	1	~80 cps (LV #1 @30 rpm)
Sono 600 Fluid	0	-18	600	315	100	2	~2,500 cps (LV #3 @ 30 rpm)
Sono 600 Gel	0	-18	600	315	100	6	~500,000 cps (LV #5 @1.5 rpm)
Sonotemp	0	-18	700	371	90	7	>4,000,000 cps (LV #5 @ 0.3 rpm)
Pyrogel Gr BF	-50	-45	800	427	100	1	~620 cps (LV #2 @ 30 rpm)
Pyrogel Gr 25	-50	-45	800	427	100	5	~150,000 cps (LV #5 @ 1.5 rpm)
Pyrogel Gr 60	-50	-45	800	427	100	8	~550,000 cps (LV# 5 @1.5 rpm)
Pyrogel Gr 100	-50	-45	800	427	100	10	>4,000,000 cps (LV#5 @ 0.3 rpm)
Sono 900	600	315	900	482	95	10	>4,000,000 cps (LV#5 @ 0.3 rpm)
Sono 950	600	315	950	510	95	8	>3,000,000 cps (LV#5 @ 0.3 rpm)
Sono 1100	700	371	1100	593	100	8	>3,000,000 cps (LV #5 @0.3 rpm)

^a For thickness gaging (derate for flaw inspection)

^b Duration of inhibition (mild steel & cast iron): 100=long term protection, 80=60 days-steel, 14 days-iron, 60=30 days-steel, 7 days-iron, 40=7 days-steel, 2 to 8 hours-iron, 20=8 hours-steel, 0 to 2 hours-iron, 0=no inhibition-like plain water.

^c 10=thick paste, 5=slow flowing gel, 0=water



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Product	Long. Velocity (x10 ⁵ cm/sec)	Impedance (Mrays)	Acoustic Performance ^d	Typical Max Halogens ^e	Typical Max Sulfur ^e	Water Solubility ^f
Ultragel II	1.65	1.73	85	<50ppm	<50ppm	95
SonoGlide Gr 7	1.53	1.55	75	<50ppm*	<50ppm*	80
SonoGlide Gr 10	1.53	1.55	75	<50ppm*	<50ppm*	80
SonoGlide Gr 20	1.53	1.55	75	<50ppm*	<50ppm*	80
SonoGlide Gr 40	1.53	1.55	75	<50ppm*	<50ppm*	80
SoundSafe	1.64	1.72	80	<50ppm	<50ppm	90
Soundclear Gr 40	1.56	1.63	60	<50ppm	<50ppm	85
Soundclear Gr 60	1.56	1.63	60	<50ppm	<50ppm	85
Sonotrace Gr 20	1.52	1.55	55	<50ppm	<50ppm	95
Sonotrace Gr 30	1.52	1.55	55	<50ppm	<50ppm	95
Sonotrace Gr 40	1.52	1.55	55	<50ppm	<50ppm	95
Echogel Gr 10	1.55	1.57	50	<50ppm	<50ppm	80
Echogel Gr 14	1.55	1.57	50	<50ppm	<50ppm	80
Echogel Gr 20	1.55	1.57	50	<50ppm	<50ppm	80
Echogel Gr 30	1.55	1.57	50	<50ppm	<50ppm	80
Echogel Winterized Gr 10	1.65	1.69	55	<50ppm	<50ppm	80
Echogel Winterized Gr 14	1.65	1.69	55	<50ppm	<50ppm	80
Echogel Winterized Gr 20	1.65	1.69	55	<50ppm	<50ppm	80
Echogel Winterized Gr 30	1.65	1.69	55	<50ppm	<50ppm	80
UT-30	1.52	1.54	50	<50ppm	<50ppm	85
UT-X (Prepared)	1.55	1.57	45	<50ppm	<50ppm	80
Sonocast	1.60	1.65	50	N/A	N/A	80
UT-X Powder	1.51	1.53	40	<50ppm	<50ppm	80
UT-X/FE Powder	1.55	1.57	40	N/A	N/A	80
Humex	1.51	1.53	45	<50ppm	<50ppm	85
Thermasonic Gr BF	1.35	1.45	75	<150ppm	<150ppm	95
Thermasonic Gr 8	1.35	1.45	75	<150ppm	<150ppm	95
Thermasonic Gr 25	1.35	1.45	75	<150ppm	<150ppm	95
Thermasonic Gr 60	1.35	1.45	75	<150ppm	<150ppm	95
Gel 3000 Gr BF	1.35	1.45	75	<150ppm	<150ppm	95
Gel 3000 Gr 8	1.35	1.45	75	<150ppm	<150ppm	95
Gel 3000 Gr 25	1.35	1.45	75	<150ppm	<150ppm	95
Gel 3000 Gr 60	1.35	1.45	75	<150ppm	<150ppm	95
High Z LV	2.63	3.68	100	<100ppm	<100ppm	90
High Z HV	2.63	3.68	100	<100ppm	<100ppm	90
Shear Gel	2.03	2.89	N/A	<100ppm	<100ppm	90
Sono 600 Gr BF	1.46	1.37	70	<150ppm	<150ppm	0
Sono 600 Fluid	1.46	1.37	70	<150ppm	<150ppm	0
Sono 600 Gel	1.46	1.37	70	<150ppm	<150ppm	0
Sonotemp	0.65	1.55	N/A	<100ppm	<50ppm	0
Pyrogel Gr BF	1.20	1.35	55	<100ppm	<50ppm	0
Pyrogel Gr 25	1.20	1.35	55	<100ppm	<50ppm	0
Pyrogel Gr 60	1.20	1.35	55	<100ppm	<50ppm	0
Pyrogel Gr 100	1.20	1.35	55	<100ppm	<50ppm	0
Sono 900	N/A	N/A	N/A	<2500ppm	<10000ppm	0
Sono 950	N/A	N/A	N/A	<2500ppm	<50000ppm	0
Sono 1100	N/A	N/A	N/A	<250ppm	<500ppm	0

^d Rough and/or curved surface, spurious signal attenuation, relatively high acoustic impedance.

^e typical values only, request current C of A for actual values

^f 100=easiest to remove with appropriate solvent
0=difficult to remove even with solvent and scrubbing

N/A=Not Available, Information in green indicates best estimates.