

TABLE 1

Longitudinal Ultrasonic Wave Velocities

Alloy	Pressure Range (kb)	Slope ($\times 10^2$ cm/sec/kb)	Velocity at Atmospheric Pressure ($\times 10^5$ cm/sec)
γ -Ag ₃ Sn	0-50	$10.35 \pm 0.64\%$	$3.82 \pm 0.05\%$
γ_1 -Ag ₂ Hg ₃	0-50	$11.52 \pm 1.1\%$	$3.05 \pm 0.12\%$
γ_2 -HgSn ₇₋₈	0-20	$9.55 \pm 1.9\%$	$3.23 \pm 0.08\%$
	20-50	$11.13 \pm 1.2\%$	

Shear Ultrasonic Wave Velocities

Alloy	Pressure Range (kb)	Slope ($\times 10^2$ cm/sec/kb)	Velocity at Atmospheric Pressure ($\times 10^5$ cm/sec)
γ -Ag ₃ Sn	0-25	$2.54 \pm 2.7\%$	$1.77 \pm 0.06\%$
	25-50	$3.85 \pm 1.9\%$	
γ_1 -Ag ₂ Hg ₃	0-50	$3.99 \pm 0.93\%$	$1.42 \pm 0.09\%$
γ_2 -HgSn ₇₋₈	0-20	$3.98 \pm 1.0\%$	$1.54 \pm 0.35\%$
	20-50	$5.31 \pm 1.9\%$	