

Physical Properties of Candidate Diaphragm Materials

Material	Density	Young 's Modulus	Poisson 's Ratio	Longitudinal Velocity	Wave Impedance
Name	gm/cm ³	M/(m ²) * (10 ⁽⁻¹⁰⁾)		m/s * (10 ⁽⁻³⁾)	kg/(m ²) * (10 ⁽⁻⁶⁾)
Aluminum	2.70	7.0	0.36	6.4	17
Beryllium	1.85	31.0	0.02	12.9	24
Magnesium	1.74	4.2	0.31	5.8	10
Titanium	4.50	10.5	0.34	5.9	27