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Material	Density, ρ,	Modulus, E,	(E/ρ)	(m/s) ↓
	Kg/m ³	GPa	GN/kg-m	∫(E/ρ) i
Silicon	2330	165	72	acousti
Silicon Oxide	2200	73	36	velocity
Silicon Nitride	3300	304	92	1
Nickel	8900	207	23	
Aluminum	2710	69	25	
Aluminum Oxide	3970	393	99	
Silicon Carbide	3300	430	130	
Diamond	3510	1035	295	1







	Stored mech	nanical energy		\frown
Material	Modulus, E,	Useful Strength*, σ _f ,	$\frac{\sigma_f}{E}$	$\left(\frac{\sigma_f^2}{E}\right)$
	GPa	MPa	(-) x 10 ⁻³	MJ/m ³
Silicon	165	4000	24	97
Silicon Oxide	73	1000	13	14
Silicon Nitride	304	1000	3	4
Nickel	207	500	2	1.2
Aluminum	69	300	4	1.3
Aluminum Oxide	393	2000	5	10
Silicon Carbide	430	2000	4	9.3
Diamond	1035	1000	1	0.9





