

ULTRASONIC TESTING(UT)- VELOCITY TABLE

Table - Sound Velocity, Density, Acoustic Impedance				
Material	V _{Lon} M/Sec	V _{TRA} M/Sec	DENSITY gm/cm ³	ACO.IMP
Aluminium	6320	3130	2.7	17.0
Aluminium Oxide	9000	5500	3.6	32.4
Bismuth	2180	1100	9.8	21.4
Brass	4430	2120	8.1	35.9
Cadmium	2780	1500	8.6	23.9
Cast Iron	2200	3500	6.9	24.2
Concrete	4600	-	2.0	9.2
Copper	4700	2260	8.9	41.8
Glass	4260	2560	3.6	15.3
Glycerin	1920	-	1.3	2.5
Gold	3240	1200	19.3	62.5
Grey casting	4600	2650	7.2	33.1
Hard Metal	6800	4000	11.0	74.8
Lead	2160	700	11.4	24.6
Magnesium	5770	3050	1.7	9.8
Motor oil	1740	-	0.87	1.5
Nickel	5630	2960	8.8	49.5
Perspex	2730	1430	1.18	3.2
Platinum	3960	1670	21.4	84.7
Polyamide (nylon)	2620	1080	1.1	2.8
Polyethylene	2340	925	0.94	2.2
Polystyrol	2380	1150	1.06	2.523
Polyvinyl chloride (PVC Hard)	2395	1060	1.4	3.353

For reference only. 'Trinity NDT' is not responsible for errors and omissions in the data if any.

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Table – Sound Velocity, Density, Acoustic Impedance				
Material	V _{Lon} M/Sec	V _{TRA} M/Sec	DENSITY gm/cm ³	ACO.IMP
Porcelain	5600	3500	2.4	13.4
Quartz	5760	-	2.65	15.2
Quartz Glass	5570	3515	2.6	14.5
Silver	3600	1590	10.5	37.8
Steel (low Alloy)	5940	3250	7.85	46.6
Steel (Calibration block)				
Catin block	5920	3250	7.85	46.5
Tin	3320	1670	7.3	24.2
Titanium	6230	3180	4.54	28.3
Tungsten	5460	2680	19.1	104.3
Uranium	3200	-	18.7	59.8
Water 20°C	1480	-	1.0	1.48
Zinc	4170	2410	7.1	29.6

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