

VELOCITY OF SOUND, IN METRES PER SECOND

Air at 0° C	332	Pine, along fibre.....	3320
Aluminium.....	5104	Carbon dioxide.....	261.6
Brass.....	3500	Hydrogen..	1278
Copper.....	3560	Illuminating gas.....	490
Iron	5130	Water at 3.9° C.....	1399
Glass.....	5000 to 6000	“ “ 13.7° C.....	1437

COEFFICIENTS OF LINEAR EXPANSION

Aluminium.....	0.0000 2313	Nickel.....	0.0000 1279
Brass.....	0.0000 1900	Platinum	0.0000 0899
Copper.....	0.0000 1678	Silver	0.0000 1921
Glass.....	0.0000 0899	Steel.....	0.0000 1322
Gold	0.0000 1443	Tin	0.0000 2234
Iron, soft.....	0.0000 1210	Zinc.....	0.0000 2918

SPECIFIC HEATS

Aluminium ...	0.214	Ice at 10° C....	0.50	Paraffin	0.694
Brass	0.090	Iron	0.113	Petroleum....	0.511
Copper.....	0.094	Lead.....	0.031	Platinum....	0.032
Glass, crown..	0.16	Marble.....	0.216	Silver.....	0.056
Gold.....	0.032	Mercury.....	0.033	Zinc	0.093

INDICES OF REFRACTION, FOR SODIUM LIGHT

Crown glass.....	1.514 to 1.560	Hydrochloric acid, at 20° C.	1.411
Flint glass.....	1.608 to 1.792	Nitric acid, at 20° C.....	1.402
Rock salt	1.544	Sulphuric acid, at 20° C....	1.437
Sylvine (potassium chloride)	1.490	Oil of turpentine, at 20° C.	1.472
Fluor spar.....	1.434	Ethyl alcohol, at 20° C....	1.388
Diamond.....	2.42 to 2.47	Carbon bisulphide.....	1.628
Canada Balsam.....	1.528	Water, at 20° C.....	1.334

CRITICAL ANGLES

Water.....	48½°	Crown glass.....	40½°	Carbon bisulphide	38°
Alcohol.....	47½°	Flint glass.....	36½°	Diamond.....	24½°