

Typical Properties of Selected Materials

HH-Half Hard	BRASS CDA-26000 HH/SPRING	COPPER CDA-11000 HH/SPRING	BRONZE CDA-42500 HH/SPRING	PHOS. BRONZE CDA-51000 HH/SPRING	BERYLLIUM COPPER CDA-17500 HH/HARD	STEEL SAE-1010	SPRING STEEL HEAT TREATED	STAINLESS STEEL 300 SERIES
Tensile Strength (KSI)	62/94	42/55	62/90	68/100	68/78	65	194	90
Shear Strength (KSI)	40/48	26/29	—	—	—	45	—	67
Elongation (%)	25/3	14/4	18/3	28/4	8/5	30	4	55
Modulus of Elasticity (PSI x 10⁶)	16	17	18	16	19	30	30	28
Specific Gravity	8.53	8.92	8.75	8.86	8.75	7.85	7.85	7.90
Density (lb. / cu. in.)	0.308	0.322	0.316	0.320	0.316	0.283	0.283	0.285
Electrical Conductivity (% of copper)	28	100	20	15	45	12	10	2
Melting Point (F)	1680	1949	1850	1750	1885	2765	2765	2680
Thermal Conductivity (BTU/hr/ft²/°F/ft)	70	226	52	40	120	34	29	10
Coefficient of Thermal Expansions (in/in°F) (10⁶)	11.1	9.4	10.2	9.9	9.8	6.5	6.7	9.6
Specific Heat (BTU/lb°F)	0.09	0.092	0.09	0.09	0.10	0.11	0.11	0.12

HH: Half Hard Temper