

# TABLE OF PROPERTIES METALLIC MATERIALS-CATALOG PRODUCTS

## TYPICAL APPROXIMATE VALUES

	Aluminum 2024T3/T4	Beryllium Copper		Brass (H-H)	Copper	Phos. Bronze (Spring Temp)	Solder (60-40)	Steel	Spring Steel (Heat-Treated)	Stainless Steel (300 Series)	Titanium
		Annealed	Heat-Treated								
Tensile Strength (psi)	68000	70000	180000	70000	34000	100000	6400	65000	194000	90000	70000
Shear Strength (psi)	41000	—	—	36000	23000	—	5700	45000	—	67000	—
Elongation (%)	20	45	6	30	30	4	45	30	4	55	22
Modules of Elasticity (psi)	10600000	19000000	19000000	15000000	17000000	16000000	—	30000000	30000000	28000000	14900000
Hardness	R/B 75	R/B 78	R 15N-78-81	R/B 77	45 Brinell	R/B 95	15 Brinell	R/B 63	R 15N-82.5-84.5	R/B 90	R/B 90
Specific Gravity	2.77	8.26	8.26	8.46	8.9	8.86	8.67	7.85	8.46	7.9	4.5
Melting Point °F	1180	1600-1800	1600-1800	1660-1715	1949-1981	1920	362-374	2765	1660-1715	2600-2680	3272
Electrical Conductivity (% of Copper)	30	17	22	26	100	15	12	12	26	2.4	14.1
Thermal Conductivity (BTU/hr/ft <sup>2</sup> /°F/ft)	70	68	68	70	225	40	28	34	70	10	—
Coef. Of Thermal Expansion (in/in°F) (10 <sup>-6</sup> )	12.9	9.3	9.3	10.2	9.3	9.9	12.2	6.5	10.2	9.6	4-8
Specific Heat (BTU/lb°F)	.23	.10	.10	.09	.09	.09	.05	.11	.11	.12	—

This data has been obtained from numerous sources. While it is believed to be correct, we cannot assume responsibility for its use.

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