Appendix 3

Physical Properties of Liquid Metals

Metal	Melting point (°C)	Reference temperature (°C)	Density (10^3 kg/m^3)	Kinematic viscosity (10^{-6} m^2/s)	Electrical conductivity ($10^6 \Omega^{-1}$m^{-1})	Thermal conductivity (Wm^{-1}C^{-1})
Titanium	1685	1700	4.1	1.3	0.58	–
Steel[1]	1495	1600	7.0	0.88	0.71	26
Iron	1535	1600	7.0	0.80	0.72	41
Nickel	1454	1500	7.9	0.62	1.2	–
Copper	1083	1100	7.9	0.51	4.8	160
Aluminium	660	700	2.4	0.60	4.1	95
Magnesium	650	700	1.6	0.80	3.6	81
Tin	232	280	6.9	0.28	2.1	31
Lithium	181	200	0.51	1.2	4.0	47
Sodium	98	100	0.92	0.68	10	89
Woods metal	70	100	9.7	0.29	0.98	8.0
Potassium	64	70	0.82	0.58	7.0	52
Galium	30	70	6.1	0.31	3.8	30
NaK[2]	−12	40	0.87	0.86	2.6	22
Mercury	−38	30	13.5	0.12	1.0	8.0

Notes: [1] Approximate values for steel with .2% carbon.
[2] Sodium–potassium eutectic.