Heraeus

Material	Pt	Ir	Pd	Rh	Os	Ru	Au	Ag	PtRh 10	PtRh 20	Ptlr 10	Ptlr 20	PtAu 5
Melting Point / Melting Range [°C]	1769	2447	1554	1963	3050	2315	1063	961	1840 - 1870	1870 - 1910	1780 - 1800	1830 - 1855	1675 - 1745
Density [g/cm^3]	21.45	22.65	12.02	12.41	22.61	12.2	19.32	10.49	20	18.1	21.6	21.7	21.32
Linear expansion coefficient (20-100°C) 10^{-6} [K^{-1}]	9.1	6.8	11.1	8.3	6.1	9.1	14.1	18.7	10.0	9.3	8.6	7.7	-
Electrical resistivity (annealed) 20° C [Ω x mm^2 x m^{-1}]	0.107	0.049	0.099	0.043	0.096	0.073	0.027	0.016	0.2	0.208	0.25	0.31	0.18
Thermal conductivity at 20°C [Wm^{-1}K^{-1}]	74	59	75	88	87	105	312	419	30	-	31	-	-
Yield point [MPa] **annealed** **hard**	 70 290	 93 -	 65 400	 68 -	 - -	 38 -	 50 260	 120 320	 180 670	 110 920	 220 630	 380 920	 370 610
Tensile strength [MPa] **anneladed** **hard**	 150 330	 450 -	 180 480	 800 1925	 - -	 500 -	 180 300	 140 380	 300 680	 380 940	 340 650	 570 920	 460 635
Tensile elongation [%] **anneladed** **hard**	 40 3	 7 -	 35 3	 9 -	 - -	 3 -	 40 3	 37 3	 32 1.5	 32 2	 32 2	 21 2	 7 1
Vickers hardness **annealed** **hard**	 42 98	 210 453	 40 210	 410 410	 350 1000	 240 750	 40 90	 35 110	 102 204	 113 273	 105 215	 190 300	 139 194
Young's modulus [GPa]	170	528	121	380	570	430	78	80	255	268	220	230	180