

# SIGMUND COHN CORP.

## Properties of metals and alloys.

The figures you need about materials that can meet your needs.

### PLATINUM GROUP METALS AND ALLOYS

	REF.	PURITY % of COMPOSITION	RESISTIVITY ( $\Omega$ /cmf @ 0°C)		TEMP. COEFF. OF RESISTANCE (0-100°C)		TENSILE STRENGTH (PSI X 1000)		ELON- GATION (Percent)		MELTING POINT (Solidus) °C	DENSITY (g/cm <sup>3</sup> )	FORMS AVAILABLE		
			Hard	Annld.	Hard	Annld.	Hard	Annld.	Hard	Annld.			S	W	R
Platinum, Reference Grade	(A)	99.999%+	59.0	57.6	.00386	.003926	60	24	2	38	1769	21.45	—	✓	✓
Platinum, Commercial Gr.		99.96%	63	61	.00375	.00386	65	24	2	38	1769	21.45	✓	✓	✓
Palladium		99.98%	62.1	59.7	.0036	.0038	60	25	2	34	1552	12.02	✓	✓	✓
Rhodium-Platinum		Pt-6%Rh	101	95	.0019	.0020	85	37	1.5	34	1810	20.51	*	✓	*
	(B)	Pt-10%Rh	114	111	.0016	.0017	95	46	1.5	32	1830	19.95	*	✓	*
	(B)	Pt-13%Rh	119	114	.0015	.0016	105	48	1.5	32	1840	19.55	*	✓	*
		Pt-20%Rh	124	116	.0013	.0014	140	72	1.5	32	1870	18.65	*	✓	*
		Pt-30%Rh	116	112	.0013	.0014	160	74	1.5	26	1910	17.52	*	✓	*
Iridium-Platinum		Pt-10%Ir	154	150	.0012	.0013	150	55	2	24	1800	21.53	✓	✓	✓
		Pt-15%Ir	176	171	.0009	.001	176	75	2	22	1820	21.57	*	*	*
		Pt-20%Ir	193	186	.0007	.0008	193	100	2	20	1840	21.61	✓	✓	✓
		Pt-25%Ir	205	198	.0006	.0007	220	125	1.5	20	1860	21.66	*	*	*
		Pt-30%Ir	218	210	.0005	.0006	270	160	1.5	18	1880	21.70	—	✓	✓
Ruthenium-Platinum		Pt-5%Ru	200	190	.0008	.0009	130	70	1.5	24	1780	20.67	*	✓	*
Nickel-Platinum	(C)	Pt-10%Ni	184	180	.0013	.0014	230	118	2	28	1650	18.63	—	✓	✓
#479 Platinum	(D)	Pt-8%W	360	400	.00028	.00024	200	130	2	24	1870	21.34	*	✓	✓
#851 Platinum		Pt-79%Rh- 15%/Ru-6%	186	179	.0006	.0007	200	95	2	18	1880	18.55	—	✓	✓

Key: S = Sheet W = Wire R = Ribbon

(✓) = Regularly Available (\*) = Available on Special Order (—) = Not Available