

Technical Data Sheet

PALLADIUM

Principal uses	Jewellery
	Automotive catalysts
	Catalysts in chemical and petrochemical industry
	Electronic industry
	Dentistry
	Surgical instruments

Physical data	Crystal structure	Face-centred cubic	
	Crystallographic parameters	3.882	Å
	Atomic number	46	
	Atomic weight	106.40	
	Density (20°C)	12.027	g/cm ³
	Melting point	1552	°C
	Boiling point	3140	°C
	Specific heat (25°C)	0.244	J/(g.K)
	Latent heat of fusion	0.017	J/g
	Linear thermal expansion coefficient (25°C)	11.7 x 10 ⁻⁶	K ⁻¹
	Electrical resistivity (20°C)	10.8 x 10 ⁻⁶	Ω.cm
	Magnetic susceptibility (17°C)	567.4 x 10 ⁻⁶	cgs
	Thermal conductivity (25°C)	0.703	W/(cm.K)

Grade & Typical Analysis **One grade:** palladium 99.95% conform ASTM B 589-94 (generally, 90% of the production reaches 99.99% purity)

Element	Max. content (ppm)	Element	Max. content (ppm)	Element	Max. content (ppm)
Pt	300	Sn	50	Al	50
Rh		Zn	25	Ni	50
Ru		Fe	50	Cr	10
Ir		Cu	50	Co	10
Au	100	Si	50	Mn	10
Ag	100	Ca	50	Sb	20
Pb	50	Mg	50	Total impurities:	500

Shapes	Powder	Granulometry:	100% > 10 mesh
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Version Pd/200401

Packing

Powder:

Polyethylene bottles packed in the following boxes
(a bottle of 1000 cc contains \pm 2.5 kg palladium)

volume bottle [cc]	box	dimensions box (outside) [mm]	dimensions box (inside) [mm]
50/100	Nail box	130x110x90	110x70x70
250/500/1000	No-nail box	240x125x125	220x105x105
2000	No-nail box	285x150x150	260x130x130
5000	No-nail box	220x220x330	200x200x269
10000	No-nail box	295x295x305	277x277x242

Minimum order of 1 kg (excluding toll-refining)
