

Material Data Sheet: Iridium

Iridium (Ir)

Version 1.2, Last Updated: 11/21/2025

1. Identification and Purity

Trade Name / Abbreviation	Ir
Chemical Formula	Ir
SCI Part Number	X0770000XXXXZ00
Purity	99.9% & 99.99% Grades Available

2. Physical and Mechanical Properties

Property	Value	Measurement / Units
Density (Bulk)	22.65	g/cm ³
Density (Sintered)	91.7 (Note: Check unit consistency)	g/cm ³
Melting / Sublimation	2,446	°C / °F
Hardness	6.5	Mohs Scale
Mechanical Stress / Modulus	250–500MPa	MPa / GPa
Band Gap / Electrical Type	—	eV / Semimetal
Configuration	Planar & Rotatable	Target Type
Backing Plate Compatibility	Planar: Copper (Cu) or Molybdenum (Mo) / Rotary: Stainless Steel	Compatibility Notes
General Comments	Extremely dense and corrosion-resistant platinum-group metal.	—

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