

Material Data Sheet: Chromium

Chromium (Cr)

Version 1.2, Last Updated: 11/21/2025

1. Identification and Purity

Trade Name / Abbreviation	Cr
Chemical Formula	Cr
SCI Part Number	X024000XXXXZ00
Purity	99% to 99.95%

2. Physical and Mechanical Properties

Property	Value	Measurement / Units
Density (Bulk)	13.31	g/cm ³
Density (Sintered)	—	g/cm ³
Melting / Sublimation	3,465	°C / °F
Hardness	8.5	Mohs Scale
Mechanical Stress / Modulus	20–154MPa	MPa / GPa
Band Gap / Electrical Type	—	eV / Semimetal
Configuration	Planar & Rotary	Target Type
Backing Plate Compatibility	Planar: Copper (Cu) or Molybdenum (Mo) / Rotary: Thermal Sprayed	Compatibility Notes
General Comments	Hard, brittle metal with a high melting point.	—

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