

26

Ce

Praseodymium

140.908

58.94

Density, STP, Liquid

Modulus Bulk Shear Young

Hardness Brinell Mohs Vickers

Conductivity Thermal Electric

Radius Calc. d/Empirical

Radius Covalent v.d Waals

Heat Vaporization/Fusion

Specific Heat

Melting Point

Boiling Point

Electronegativity

Electron Affinity

1st Ionization

Oxidation States

Electron Config

Electron Shells

Abundance (Umw.)

Discovered

78.4

170 / 82 / 271

490 / 4 / 608

156 / 40

125

347 / 13.8

449

1538°C 871K

2887°C 314K

1.83

157

762.5

2, 3

4f⁴ 5s²

2, 8, 14, 2

0.11%

—

27

Co

Cobalt

158.93

58.933

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Abundance (Umw.)

Discovered

8300 / 7750

180 / 75 / 209

700 / 5 / 1043

152 / 17

126

375 / 16.2

421

1495°C 1768K

2927°C 3220K

1.88

63.7

760.4

2, 3

3d⁷ 4s²

2, 8, 15, 2

0.00030%

1735

28

Ni

Nickel

158.93

58.693

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Abundance (Umw.)

Discovered

8908 / 7810

180 / 76 / 200

700 / 4 / 538

91 / 14

121 / 163

378 / 17.2

445

1455°C 1728K

2913°C 3186K

1.91

73.7

737

2

3d⁸ 4s²

2, 8, 16, 2

0.0060%

1751

29

Cu

Copper

160.09

63.546

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Electron Shells

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Discovered

8960 / 8020

170 / 82 / 271

490 / 4 / 608

160 / 40

128

347 / 13.8

449

1358°C 871K

2835°C 3168K

1.90

74.6

746

1

3d¹⁰ 4s¹

2, 8, 18, 1

0.0069%

1868

45

Rh

Rhodium

186.21

102.91

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Abundance (Umw.)

Discovered

12450 / 10700

380 / 150 / 275

1100 / 6 / 1246

150 / 23

173 / 135

—

217

240

1964°C 2237K

3695°C 3968K

2.28

109.7

719.7

3

4d⁸ 5s¹

2, 8, 18, 16, 1

6.0-10⁻⁷%

1803

77

Ir

Iridium

223.03

192.22

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Abundance (Umw.)

Discovered

22650 / 19000

320 / 210 / 928

1670 / 6.5 / 7760

150 / 21

180 / 135

137 / 11

26

131

2466°C 2738K

4428°C 4704K

2.230

151

880

3, 4

5d⁷ 6s²

2, 8, 18, 32, 7, 2

2.6-10⁻⁷%

—

46

Pd

Palladium

106.42

106.42

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Abundance (Umw.)

Discovered

12023 / 10380

180 / 44 / 121

373 / 4 / 73

161

169 / 140

131 / 163

167

240

1594.9°C 1828K

2963°C 3236K

2.20

53.7

804.4

2, 4

4d¹⁰

2, 8, 18, 18

2.0-10⁻⁷%

1803

78

Pt

Platinum

200.59

195.08

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Abundance (Umw.)

Discovered

21090 / 19770

230 / 61 / 168

392 / 3.5 / 549

171 / 9.4

177 / 135

128 / 175

490 / 20

153

1768.3°C 2041.4K

3825°C 4098K

2.28

205.3

870

2, 4

5d⁹ 6s¹

2, 8, 18, 32, 15, 2

5.0-10⁻⁷%

—

79

Au

Gold

196.97

196.9665

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Abundance (Umw.)

Discovered

19300 / 18600

270 / 68 / 255

302 / 3 / 400

143 / 9

143

347 / 13.8

449

1337°C 1064K

2805°C 3078K

2.48

220.1

809

1

5d¹⁰ 6s¹

2, 8, 18, 32, 16, 1

0.000009%

1868

47

Ag

Silver

107.87

107.8682

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Discovered

10490 / 9580

170 / 82 / 271

490 / 4 / 608

160 / 40

128

347 / 13.8

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1337°C 1064K

2805°C 3078K

2.48

220.1

809

1

5d¹⁰ 6s¹

2, 8, 18, 32, 16, 1

0.000009%

1868

79

Au

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196.97

196.9665

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1868