

Periodic Table of the Elements



11.01

H

Hydrogen

3.04

Li

Lithium

6.94

Be

Beryllium

12.01

Na

Sodium

14.01

Mg

Magnesium

19.00

K

Potassium

20.02

Ca

Calcium

21.03

Sc

Scandium

22.02

Ti

Titanium

23.02

V

Vanadium

24.06

Cr

Chromium

25.04

Mn

Manganese

26.09

Fe

Iron

27.01

Co

Cobalt

28.01

Ni

Nickel

29.08

Cu

Copper

30.07

Zn

Zinc

31.04

Ga

Gallium

32.06

Ge

Germanium

33.06

As

Arsenic

34.09

Se

Selenium

35.45

Br

Bromine

36.97

Kr

Krypton

37.02

Rb

Rubidium

38.08

Sr

Strontium

39.10

Y

Yttrium

40.08

Zr

Zirconium

41.03

Nb

Niobium

42.01

Mo

Molybdenum

43.02

Tc

Technetium

44.06

Ru

Ruthenium

45.07

Rh

Rhodium

46.02

Pd

Palladium

47.03

Ag

Silver

48.02

Cd

Cadmium

49.09

In

Indium

50.12

Sn

Tin

51.00

Sb

Antimony

52.04

Te

Tellurium

53.09

I

Iodine

54.09

Xe

Xenon

55.08

Cs

Cesium

56.01

Ba

Barium

57.25

La

Lanthanum

58.93

Ce

Cerium

59.91

Pr

Praseodymium

60.92

Nd

Neodymium

61.91

Pm

Promethium

62.93

Sm

Samarium

63.95

Eu

Europium

64.93

Gd

Gadolinium

65.93

Tb

Terbium

66.93

Dy

Dysprosium

67.93

Ho

Holmium

68.93

Er

Erbium

69.92

Tm

Thulium

70.91

Yb

Ytterbium

71.90

Lu

Lutetium

72.91

Hf

Hafnium

73.92

Ta

Tantalum

74.92

W

Tungsten

75.94

Re

Rhenium

76.94

Os

Osmium

77.94

Ir

Iridium

78.91

Pt

Platinum

79.90

Au

Gold

80.91

Hg

Mercury

81.91

Tl

Thallium

82.91

Pb

Lead

83.91

Bi

Bismuth

84.91

Po

Polonium

85.91

At

Astatine

86.91

Rn

Radon

87.63

Fr

Francium

88.00

Ra

Radium

89.00

Ac

Actinium

90.02

Th

Thorium

91.02

Pa

Protactinium

92.02

U

Uranium

93.03

Np

Neptunium

94.04

Pu

Plutonium

95.04

Am

Americium

96.06

Cm

Curium

97.06

Bk

Berkelium

98.07

Cf

Californium

99.07

Es

Einsteinium

100.08

Fm

Fermium

101.08

Md

Mendelevium

102.08

No

Nobelium

103.08

Lr

Lawrencium

101

Si

Silicon

atomic number

atomic weight

symbol

black solid

blue liquid

red gas

white synthetically prepared

near ambient temp

alkali metals

alkaline earth metals

transitional metals

other metals

nonmetals

noble gases

LABS

5

6

7

8

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14

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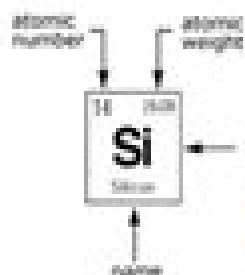
99

100

101

102

103



symbol
 black solid
 blue liquid
 red gas
 white synthetically prepared
 over: radioisotope

- alkali metals
- alkaline earth metals
- transitional metals
- other metals
- nonmetals
- noble gases

58 Ce Cerium	59 Pr Praseodymium	60 Nd Neodymium	61 Pm Promethium	62 Sm Samarium	63 Eu Europium	64 Gd Gadolinium	65 Tb Terbium	66 Dy Dysprosium	67 Ho Holmium	68 Er Erbium	69 Tm Thulium	70 Yb Ytterbium	71 Lu Lutetium
90 Th Thorium	91 Pa Protactinium	92 U Uranium	93 Np Neptunium	94 Pu Plutonium	95 Am Americium	96 Cm Curium	97 Bk Berkelium	98 Cf Californium	99 Es Einsteinium	100 Fm Fermium	101 Md Mendelevium	102 No Nobelium	103 Lr Lawrencium

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buildings will rarely be impacted by the dead load maximum of live load snow load earthquake load wind

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horizontal loads and longitudinal loads the vertical loads consist of dead load live load and impact load the horizontal loads

comprises of wind load and earthquake load

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this chapter specifies the minimum design forces including dead load live load wind and earthquake loads miscellaneous

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and the allowable strength design method asd some of the load combinations for these methods are shown below lrfd 1 1 4d

2 1 2 d 1 6l 0 5 l r or s or r 3 1 2d 1 6 l r or s or r l or 0 5w 4 1 2d 1 0w

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