

Tavola periodica degli elementi

1

H

Hydrogen 1

E rocket fuel
E hydrogenation of oils to make fats
E vehicle fuel
C ammonia
Av. 1.01

2

Li

Lithium 3

E rocket fuel additive
E pacemaker battery
E energy storage
E lubricant additive, glass
E antidepressant
Av. 6.94

Be

Beryllium 4

E x-ray tube window
E aircraft brakes
E golf clubs
E (watch) spring
E spark plug tools
Av. 9.01

Na

Sodium 11

E coolant in nuclear reactors
E street light
C kitchen salt, soda, glass
E airbag
C economics, soap
Av. 23.00

Mg

Magnesium 12

E rare
E car wheel, aircraft
C firebrick
C powder for pyrotechnics
C pigment, filler
Av. 24.31

KEY

At room temperature the element is:	Appearance in nature:	Used as:
Yellow gas	Unshaded only as compounds	Calcium 20 name, atomic number
Red liquid	Shaded free element	element (text in black)
White solid	Half-shaded as the element and in compounds	alloy, blend or mixture (text in red)
Green man-made solid		compound (text in dark blue)
		relative atomic mass (to 2 d.p.)

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K

Potassium 19

C synthetic fertilizer
C matches, gunpowder
C salt (sodium chloride) substitute
Av. 39.10

Ca

Calcium 20

E metallurgy
E cable insulation, battery
E synthetic fertilizer, salt
E treatment for soy meals
E plaster, cement
E filler in paper, paint
Av. 40.08

Sc

Scandium 21

E leak detector
E seed germinating agent
C lights for sets for TV production
Av. 44.96

Ti

Titanium 22

E heat exchanger
E aircraft
E bone pins, prosthetics
C pigment for paint and paper
C polymerization catalyst
Av. 47.88

V

Vanadium 23

H construction material
H tools, spring
H jet engines
C wetting agent
C catalyst for sulfuric acid production
Av. 50.94

Cr

Chromium 24

E plating, protecting
H steel for tools and knives
C catalyst for methanol production
C camouflage paint, laser
C dyes and video tapes
Av. 52.00

Mn

Manganese 25

H steel for railway points
H tools, blades
H safe
C battery
C glass, black pigment
Av. 54.94

Fe

Iron 26

E magnet
H bridge, car, boat, machine
H car case
H tools, nail
Av. 55.85

Co

Cobalt 27

E gamma radiation source
H razor blades
H permanent magnet
C pigment
Av. 58.93

Rb

Rubidium 37

E photoelectric cell
E gas scavenger (in vacuum tube)
C fuel cell
E hardened glass
E blood circulation regulator
Av. 85.47

Sr

Strontium 38

C nuclear battery in hours
E weather station
C permanent magnet
C pigments for paint
C fireworks
E toothpaste for sensitive teeth
Av. 87.62

Y

Yttrium 39

H jet engine
H colour TV screens
C camera lenses
C firebricks
C laser, radar (filter)
Av. 88.91

Zr

Zirconium 40

E nuclear fuel rods
H precision cap
C fake diamond
C furnace bricks
C oxygen meter
Av. 91.22

Nb

Niobium 41

H cutting tools
H pipe
H superconducting magnet
H welding rod
H orthopaedic implants
Av. 92.91

Mo

Molybdenum 42

E filament in electric heater
H nuclear reactor, turbine
C flame retardant
C lubricant
C catalyst in petrochemistry
Av. 95.94

Tc

Technetium 43

E radiation source for medical research
Av. (99)

Ru

Ruthenium 44

H car spark plug
H electrical contact
H resistance wire
H jewelry plating
H coating inside
H jewelry
Av. 101.07

Rh

Rhodium 45

E mirror in projector
H high-pressure lamp
H jewelry
H catalytic converter
H car spark plug
Av. 102.91

Cs

Caesium 55

E photoelectric cell
E gamma radiation source
E atomic clock
E ultra-violet lamp
E rocket fuel additive
Av. 132.91

Ba

Barium 56

H gas scavenger (in vacuum tube)
C fluorescent additive
C blue pigment for paper
C fireworks, X-ray photo of digestive system
C mud used in oil drilling
Av. 137.33

La

Lanthanum 57

H lighter flint
H battery electrode
C optical converter
C camera lenses
Av. 138.91

Hf

Hafnium 72

E nuclear submarine
E control rods in nuclear reactor
E gas scavenger for vacuum tube
H jet engine
H tools
Av. 178.49

Ta

Tantalum 73

E electrical condenser
H vacuum tube filaments
H cutting tool, rocket
H spectacle frames, prosthetic
C camera lenses
Av. 180.95

W

Tungsten 74

E welding electrode
E lamp filament, tv
E arrow, drill, bullet
H rocket nozzle
H cutting and boring tools
Av. 183.85

Re

Rhenium 75

E oven filament
H catalyst 4-stroke petrol production
H jewelry plating
H anode X-ray tube
H thermocouple
Av. 186.21

Os

Osmium 76

E catalyst for ammonia production
H fountain pen nib
H complex reagent
H clock-bearing
H jewelry
Av. 196.22

Ir

Iridium 77

E cancer radiation
H high-pressure lamp
H hypodermic needle
C fountain pen nib
Av. 192.22

Fr

Francium 87

Seldom found in nature
Av. (223)

Ra

Radium 88

Av. 226.03

Ac

Actinium 89

Av. 227.03

Rutherfordium 104

Dubnium 105

Seaborgium 106

Bohrium 107

Hassium 108

Mtnerium 109

Darmstadtium 110

Roentgenium 111

Ce: Cerium 58

H lighter flint
C polishing powder for TV glass
C ion lamp
Av. 140.12

Pr: Praseodymium 59

H lighter flint
H permanent magnet
H watchlight
C glass for welding spectacles
Av. 140.91

Nd: Neodymium 60

H permanent magnet
C colouring for spectacles
C ceramic condenser
C glass for laser and lenses
Av. 144.24

Pm: Promethium 61

C nuclear battery
C thickness meter
Av. (145)

Sm: Samarium 62

H permanent magnet
H neutron scavenger
C magnet
C ceramic condenser
Av. 150.36

Th: Thorium 90

E coating on filament wire
C fuel for breeder nuclear reactor
C glass for lenses
C gaslight mantle
C crucible
Av. 232.04

Pa: Protactinium 91

Av. 231.04

U: Uranium 92

E breeder reactor fuel
E nuclear reactor fuel
H gyro compass
H soil amendment
C glass coloring
Av. 238.03

Np: Neptunium 93

Av. 237.05

Pu: Plutonium 94

C nuclear battery for space research
C nuclear reactor fuel
Av. (244)



