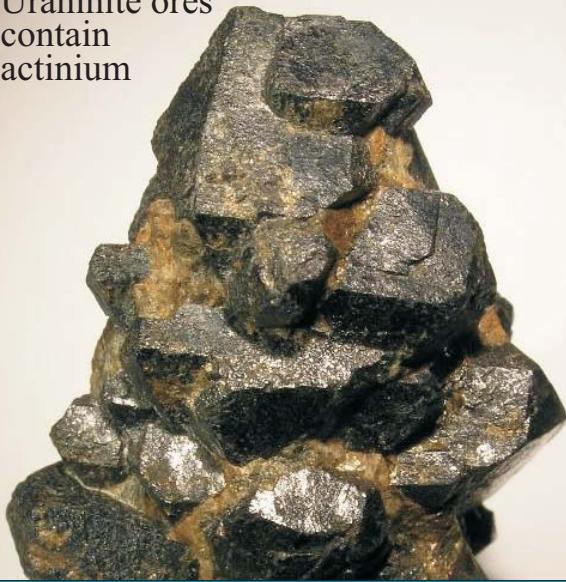


Uraninite ores
contain
actinium



Actinium

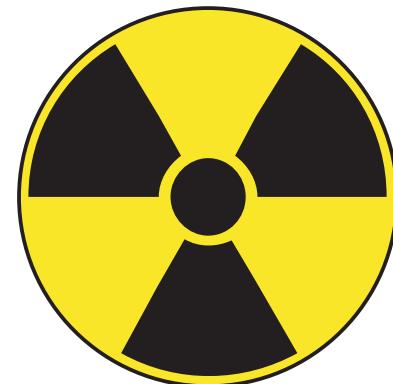
Ac⁸⁹

227,03
1,0
[Rn] 6d¹7s²

Actinium

is derived from the Greek
“aktinos”, meaning beam or
ray.

Actinide



²²⁷Ac decays with a half-life of 21,77 years.

Actinide

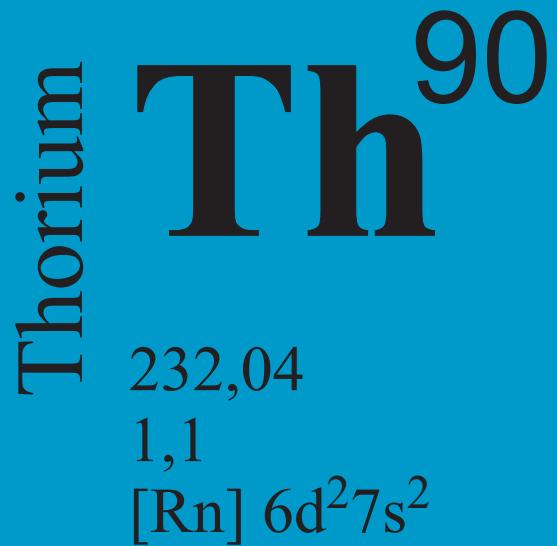
×

Solid

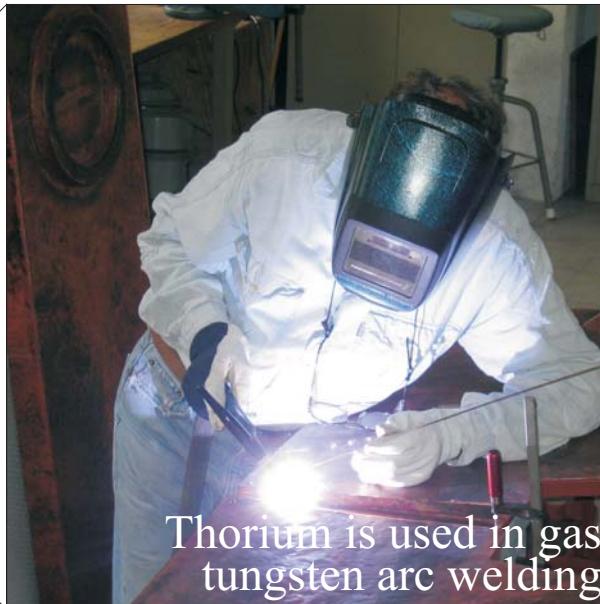
Soft, silvery-white
radioactive metal;
origin: decay of
uranium, neptunium.

Used in radioactive
therapy (medicine).

Monazite is the primary source of thorium



Thorium
is named after the Norse god
of thunder, "Thor".
Actinide



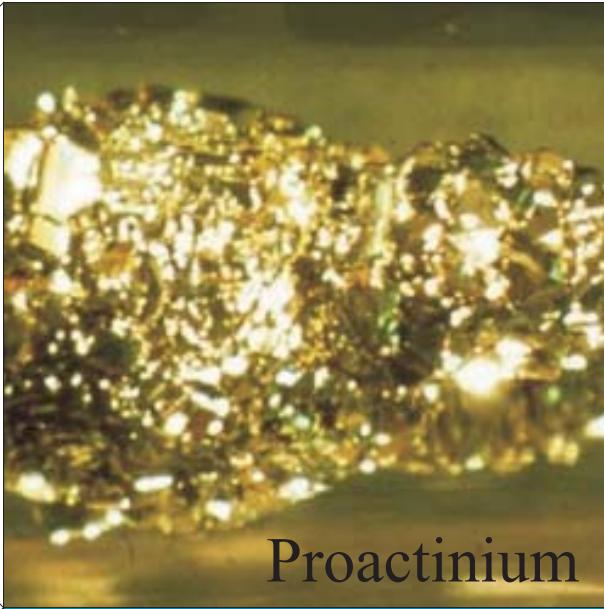
Thorium is used in gas tungsten arc welding

Actinide

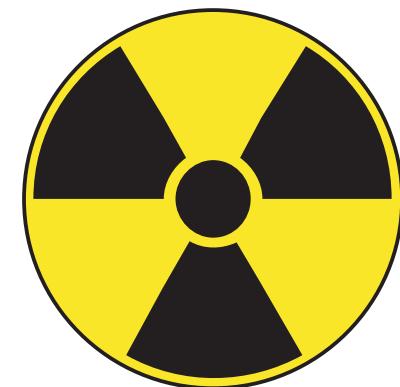
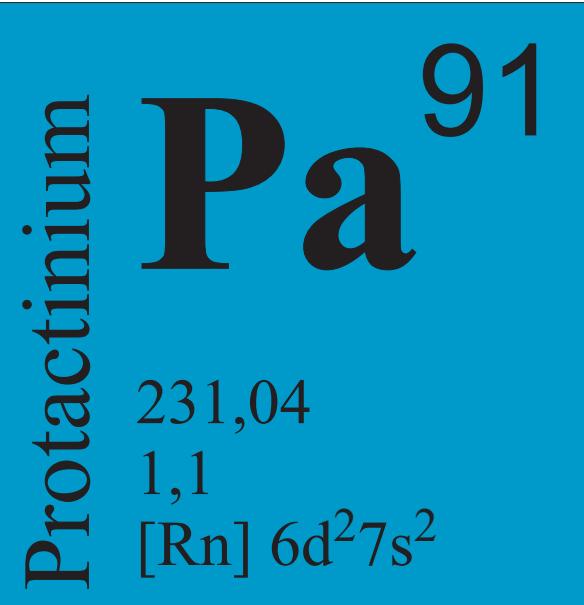
×

Solid
Silvery-white,
radioactive metal.

Uses: gas mantles,
high-quality lenses,
fuel in nuclear
reactors.



Protactinium
is derived from the two
Greek words: “proto” (first)
and “aktinos” (ray).

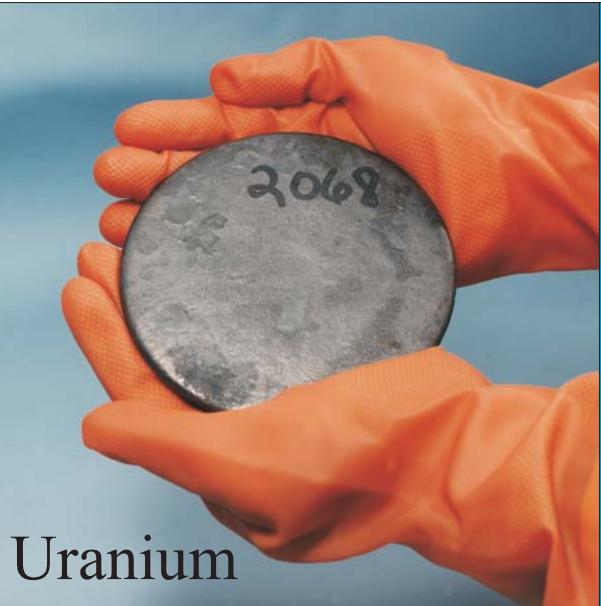


^{231}Pa decays with a half-life of 32 760 years.

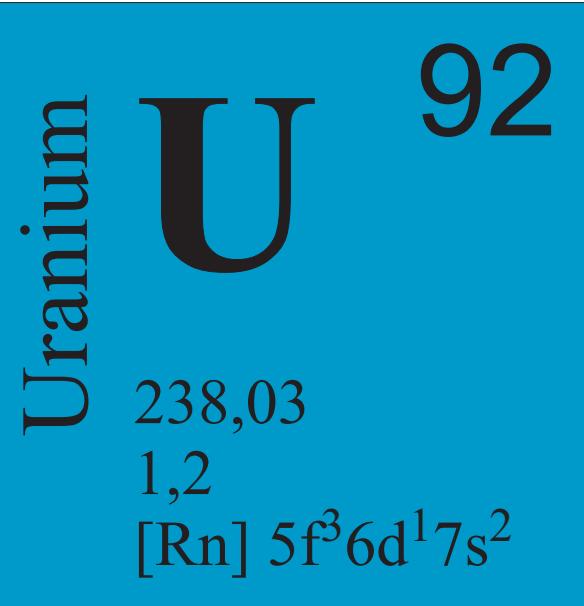
Actinide

Solid
Bright, silvery
metal.

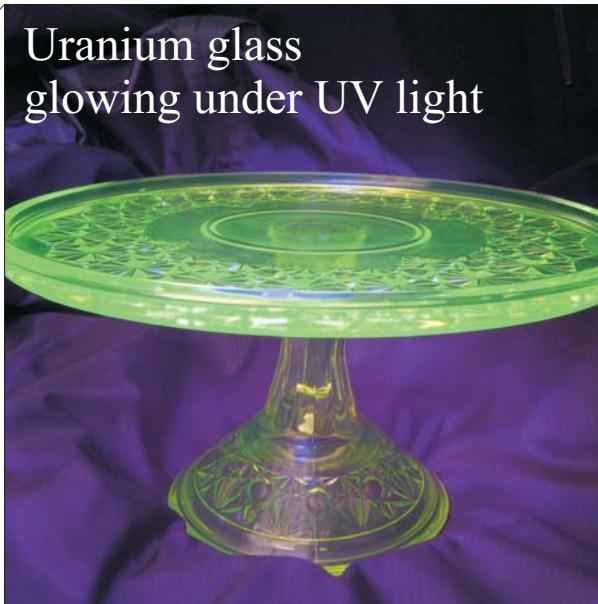
It is a decay product
of uranium-235 and
has no commercial
use.



Uranium



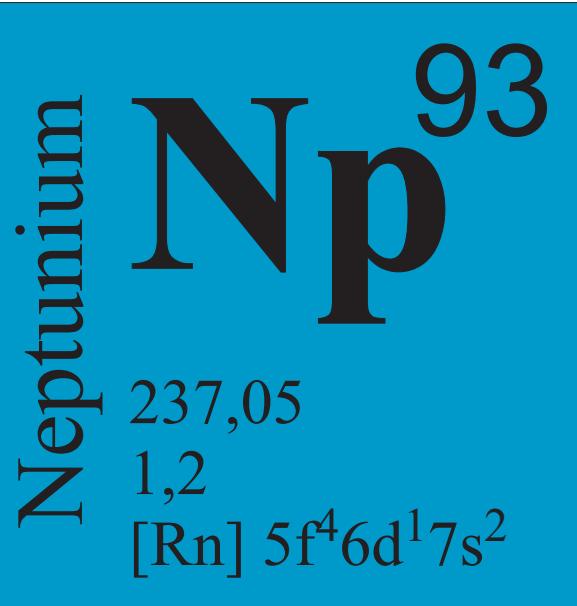
Uranium
is named after the planet
Uranus.
Actinide

The text is arranged in a diamond shape. The word 'Uranium' is at the top left, 'is named after the planet' is in the middle, 'Uranus.' is at the bottom left, and 'Actinide' is at the bottom right.

Uranium glass
glowing under UV light

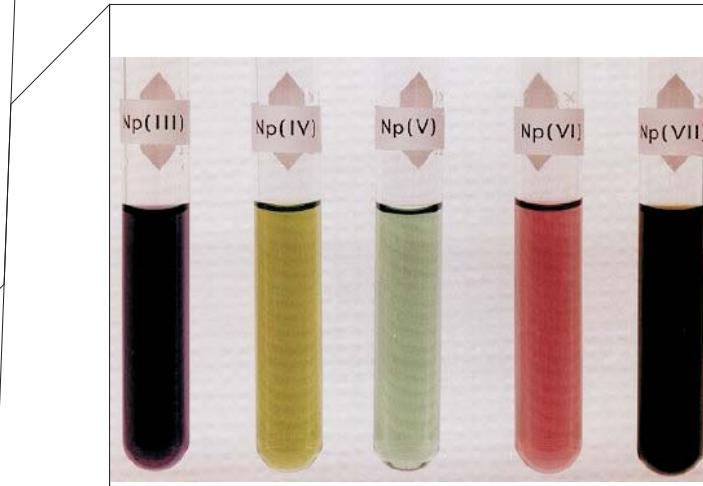
Actinide

Solid
Silvery grey metal.
Uses: atomic bombs,
fuel in nuclear
reactors, gives glass
a yellow or green
colour.



Neptunium
is named after the planet
Neptune.

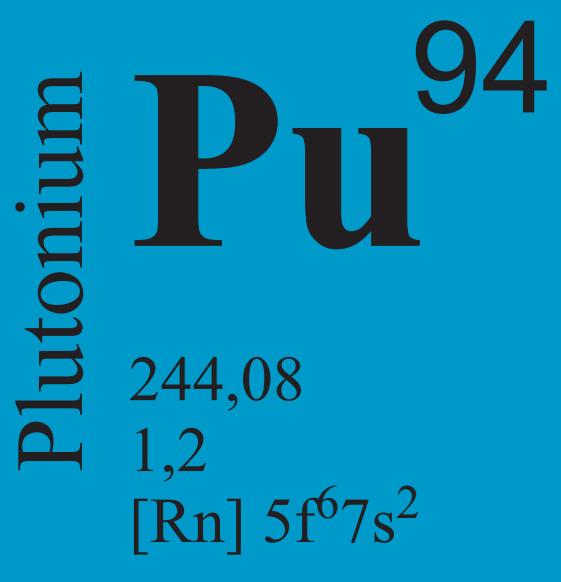
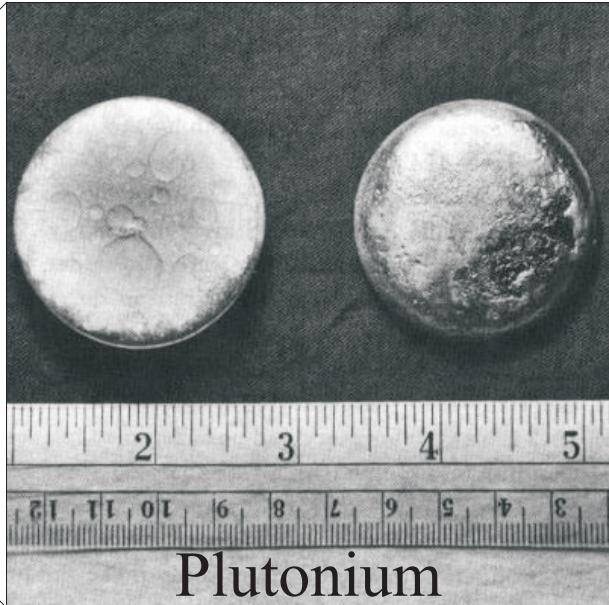
Actinide



Solutions of ionic oxidation states are different colours.

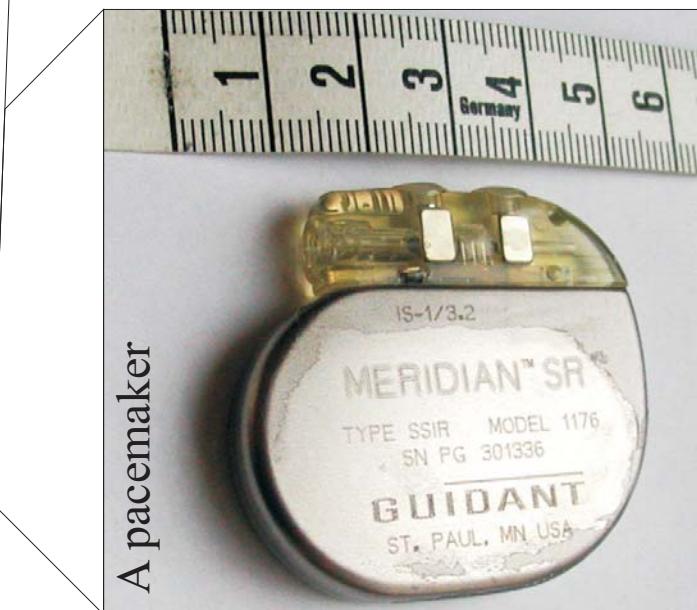
Actinide

Solid
Silvery metal; decay product of uranium.
Used in neutron detection instruments; radio-active waste.



Plutonium
is named after the planet
Pluto, Roman god of the
dead. The Greek “ploutōn”
means wealth.

Actinide

A blue rectangular panel containing the element name "Plutonium" in large, bold, black letters. Below it is a detailed explanation of its naming. The word "Actinide" is printed diagonally at the bottom right.

Actinide

×

A blue rectangular panel containing the word "Actinide" in large, bold, black letters. A small "×" symbol is located near the bottom right corner.

Solid
Silvery-white metal.

Used in nuclear
weapons, to power
heart pacemakers
and space probes.