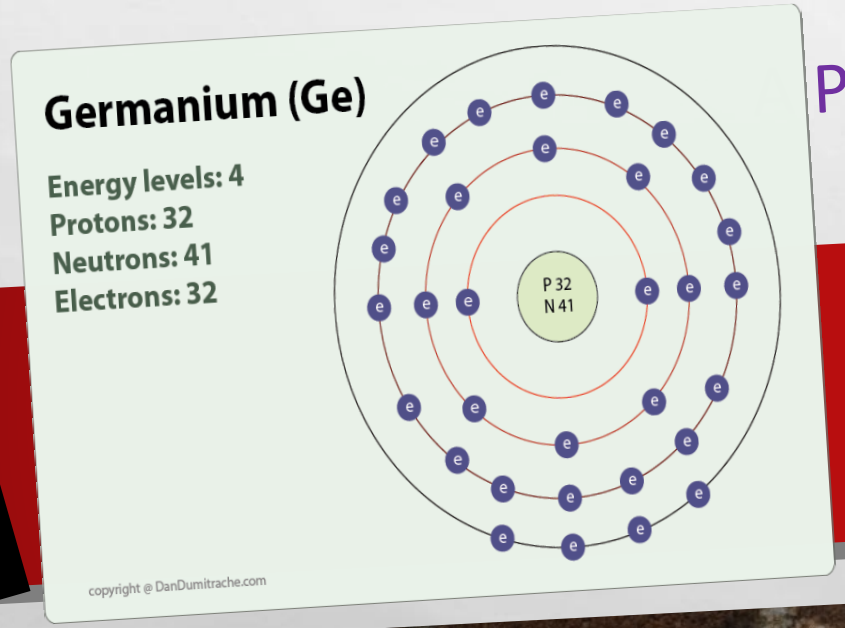
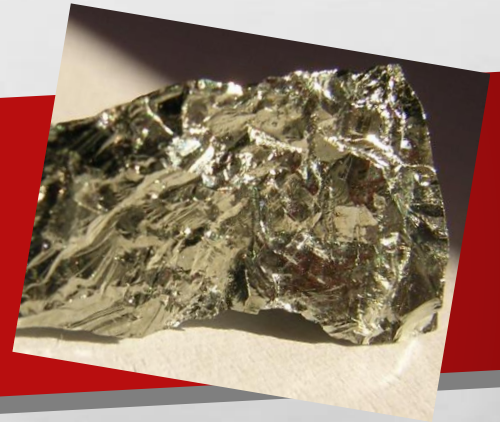
ELEMENTO-PEDIA
GERMANIUM

32
Ge
72.64



PRESENTATION BY-T SANJANA

XI C



INTERESTING FACTS

85% of the world's consumption of germanium is in fibre optics.

Germanium did not become a useful element until 1945, when researchers discovered its excellent semi-conducting properties.

It is a metalloid .

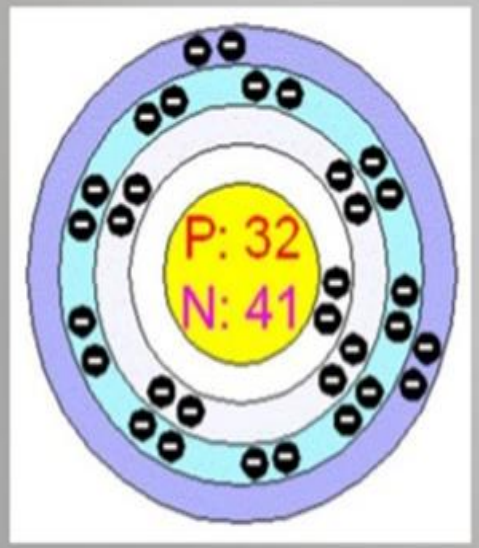
Germanium is one of the few elements that expands when it freezes, like water

The name, Germanium, derives from the latin word 'germania'(Germany)and was given to the element by Winkler.

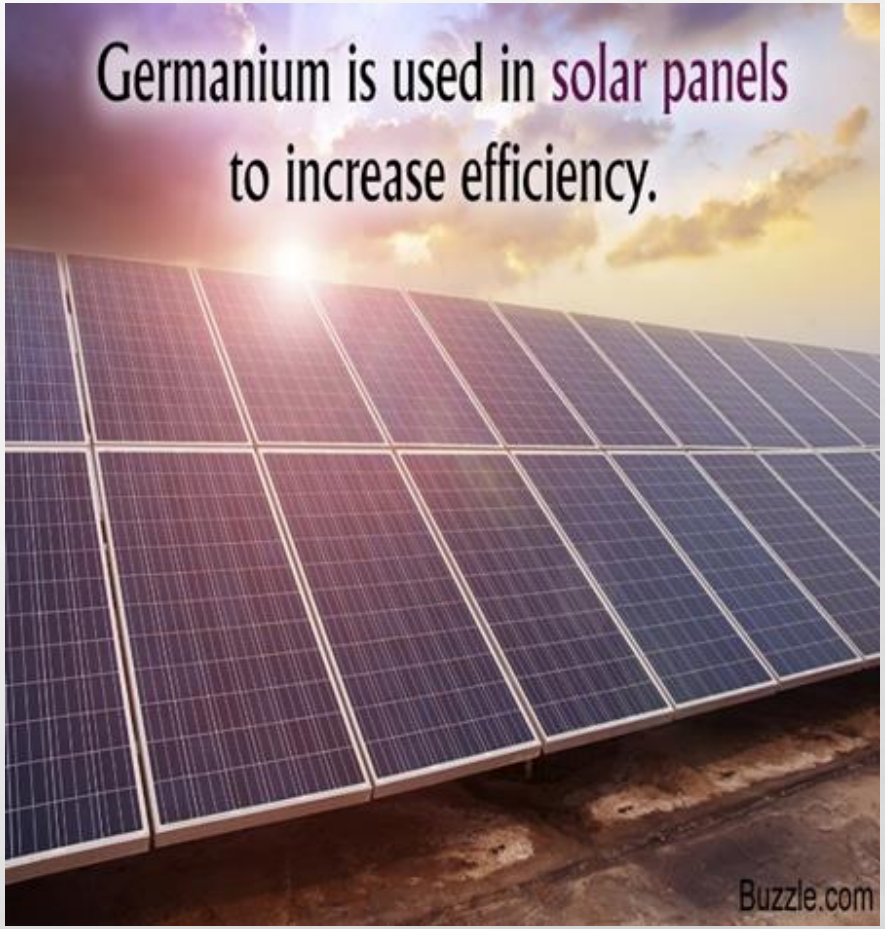
USES OF GERMANIUM

- BEING A SEMICONDUCTOR, IT HAS PROPERTIES SIMILAR TO TIN AND SILICON AND SO, GERMANIUM IS USED BY THE SEMICONDUCTOR INDUSTRIES ON A REGULAR BASIS.
- IT IS USED IN MANUFACTURE OF WIDE ANGLE CAMERA LENSES.
- THE ELEMENT IS USED IN TRANSISTORS.
- GERMANIUM IS ONE OF THE ELEMENTS ON INSIDE OF FLUORESCENT BULBS (USED AS A PHOSPHOR).
- IT IS ALSO ADDED TO ALLOYS.

PROPERTIES



- **Element Classification:** Semi-metallic
- **Density (g/cc):** 5.323
- **Melting Point (K):** 1210.6
- **Boiling Point (K):** 3103
- **Appearance:** grayish-white metal
- **Atomic Radius (pm):** 137
- **Atomic Volume (cc/mol):** 13.6
- **Covalent Radius (pm):** 122
- **Ionic Radius:** 53 (+4e) 73 (+2e)




Thank You
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