



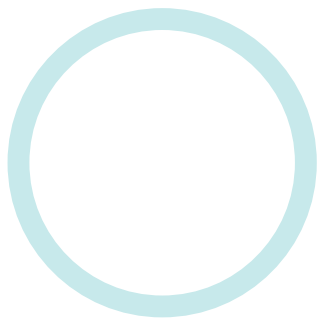
## PROMETHIUM

# Pm

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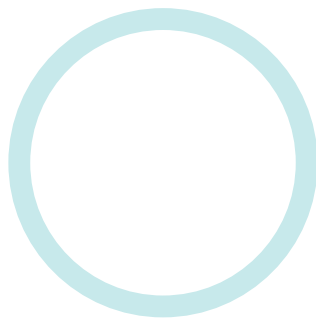
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### RARE



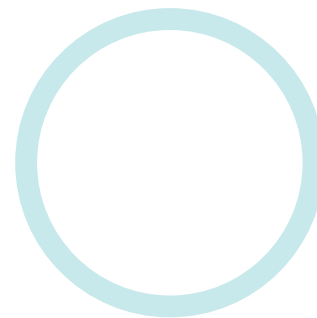
One of the rarest elements on Earth, promethium is a synthetic element that is not found in nature. It is a member of the lanthanide series and is highly radioactive, with a half-life of only a few hours. It is used in scientific research and in the production of certain types of nuclear batteries.

### ATOMIC BATTERIES



Promethium is used in atomic batteries, which are small, long-lasting power sources. These batteries are used in space exploration, where they provide power for instruments and equipment. The first atomic battery was developed in 1947 and used promethium-147 as a power source. It was used in the Soviet satellite, Luna 3, which was launched in 1959.

### STAR SYNTHESIS



Promethium is also used in star synthesis, where it is produced in the cores of stars. It is a member of the lanthanide series and is highly radioactive, with a half-life of only a few hours. It is used in scientific research and in the production of certain types of nuclear batteries.