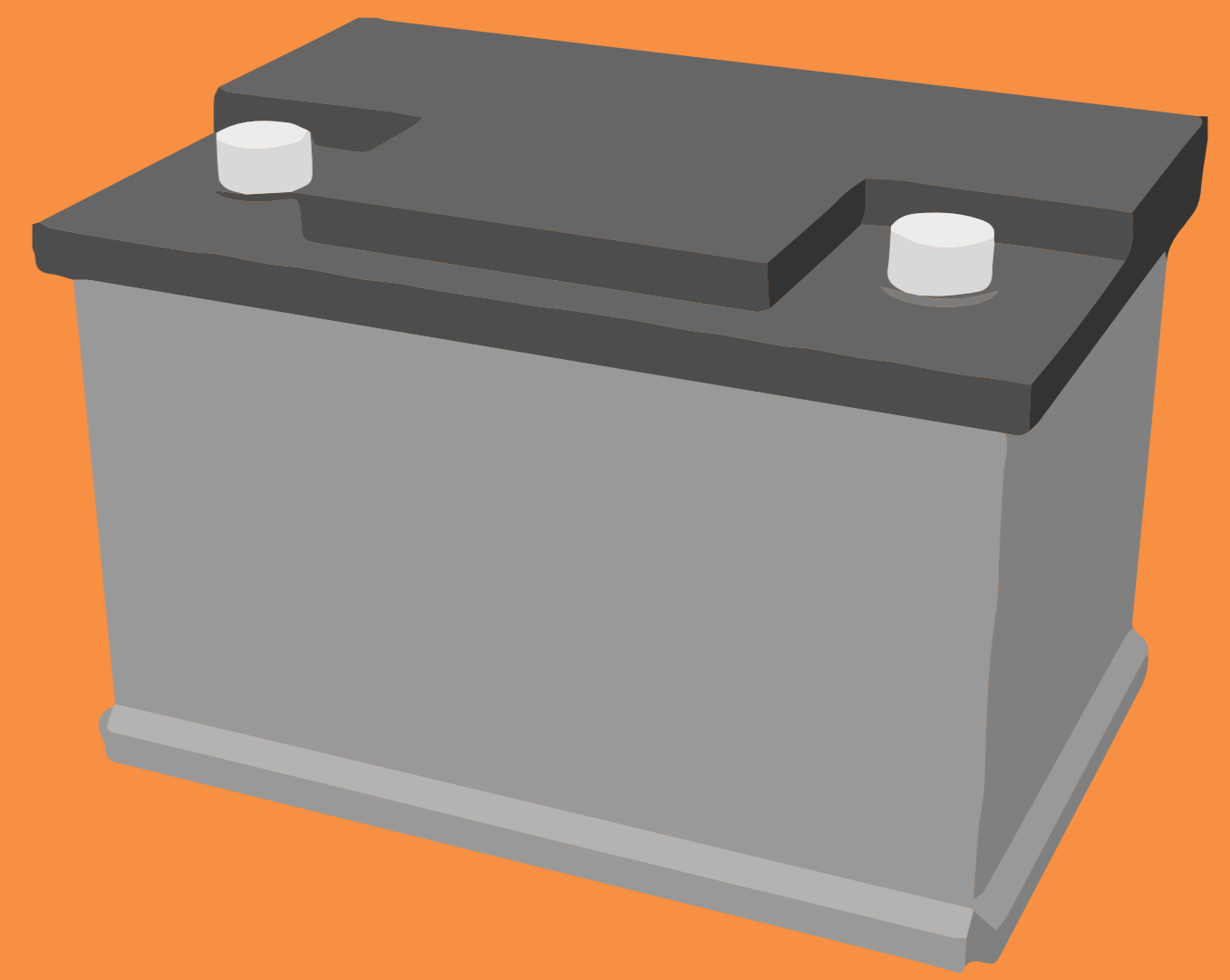


LEAD

A helpful & harmful heavy metal

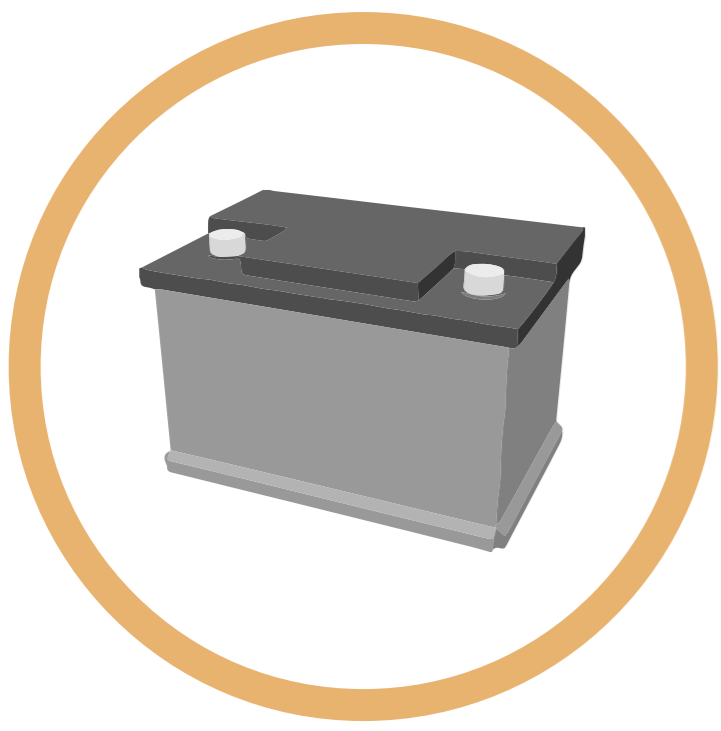


Scientific Properties

- Very Dense
- Non-corrosive
- Ductile
- Malleable
- Shields against X-ray radiation
- Shields against gamma radiation

Uses for Lead in the U.S.

BATTERIES



The primary use of lead is in lead-acid batteries. It performs well in cold temperatures, is affordable and is easy to recycle. In 2019, lead batteries had a recycling rate of 99% in the United States.

AMMUNITION



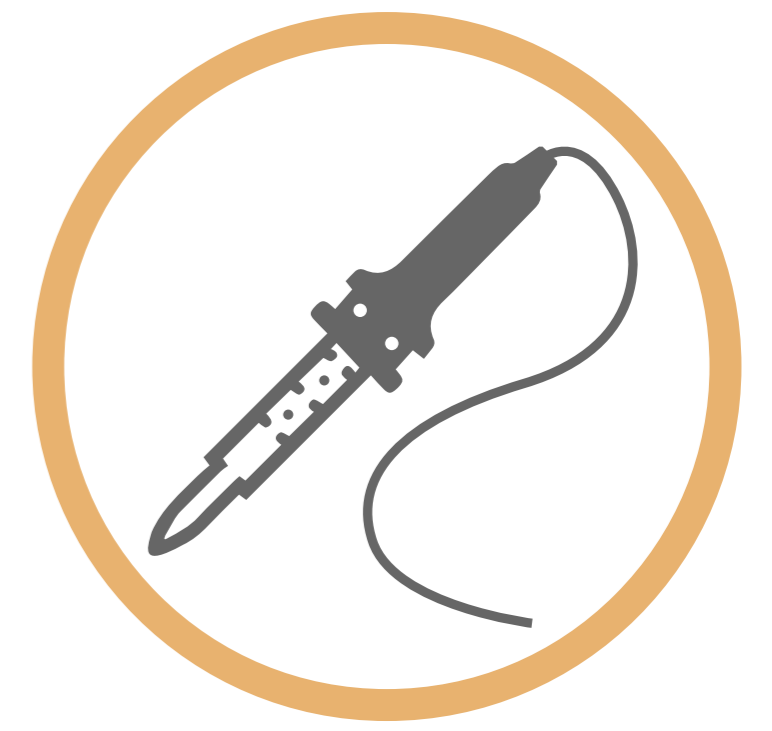
Lead is widely used in bullets because it is very dense and can deliver the needed kinetic energy to the intended target. Lead melts at a low temperature and is soft, making it easy to fabricate into numerous bullet shapes and sizes.

RADIATION SHIELD



Because of its chemical properties, lead is very effective in stopping the flow of wave radiation, including X-rays and gamma rays. It is used as a radiation shield in the medical and nuclear industries.

CONSTRUCTION



Lead is soft and easy to cast. In construction, it is used as solder, in casting metals, and in sheet lead. But, because of its toxicity, industries have started to use other metal and plastic substitutes.

Alaska Lead Production

127,427
tons mined in 2018



DID YOU KNOW

Alaska has **2%** of world's lead reserves. (2018)

\$252.2 MILLION
worth of lead was produced in 2018



www.blm.gov/alaska/minerals

References:
<https://dggg.alaska.gov>
<http://www.dnr.alaska.gov>
<https://www.usgs.gov>