2814 THE VERSATILE METAL POWERING AMERICAN INNOVATION

Silver's ELECTRICAL, THERMAL, MALLEABLE and REFLECTIVE properties are among the strongest of the known elements, making it the material of choice for many manufacturers.





conductivity of all metals



very ductile & malleable



IKILO

NATIONAL SECURITY

Silver's exceptional strength helps protect our troops: it is an essential component of the Air Force C17 transport and the **ARMY'S APACHE HELICOPTER.**



ENER

Silver is essential to efficiently turn sunlight into energy



HIGH-TECHNOLOGY



Silver is found in the technology that powers your automobiles, microwaves, cameras and plasma TVs and other electronics.

Silver is critical to the development of next

PRINTABLE SILVER INK

generation technologies:

FLEXIBLE ELECTRONICS

- Sensors to monitor stress in bridges, dams, skyscrapers and other large structures
- Flexible solar cells
- Flexible displays for devices such as cell phones and tablets

MEDICAL TECHNOLOGY

X-RAYS

Silver X-rays are integral to healthcare in developing countries where resources are scarce because they are:

- Extremely accurate
- Cost effective

ANTIBIOTICS

- Prevents bacterial growth
- Accelerates the healing process

Silver prevents bacterial growth, accelerates the healing process, and can heighten the effectiveness of certain drugs. For instance, a small amount of silver makes bacteria like E. coli significantly more sensitive to antibiotics like penicillin.

Silver interrupts bacteria's ability to form the **chemical** bonds essential to its physical structure and survival, and causes the bacteria to literally fall apart



ECONOMY



1,170 tons

of silver produced in the U.S. in 2014, valuing approximately



SILVER PRODUCTION IN THE U.S. IS A MAJOR ECONOMIC DRIVER AND JOB CREATOR

Silver will continue to be in high demand, meaning big economic opportunities for silver-rich states

25,594 tons of estimated silver produced globally in 2013

SOURCES

http://minerals.usgs.gov/minerals/pubs/commodity/silver/ http://www.usatoday.com/story/money/markets/2014/08/29/no-silver-no-solar/14756397/ https://www.silverinstitute.org/site/silver-in-technology/silver-in-medicine/x-rays-in-developing-countries/ http://mineralsmakelife.org/blog/details/silvers-innovative-applications1 http://mineralsmakelife.org/blog/details/new-study-reveals-benefits-of-silver-in-antibiotics https://www.silverinstitute.org/site/silver-in-technology/silver-in-green/ https://www.silverinstitute.org/site/silver-in-technology/silver-in-medicine/bandages/ https://www.silverinstitute.org/site/silver-in-technology/silver-in-nanotechnology/

mineralsmakelife.org

MINERALS

MAKE

LIFE