

# Magnesium



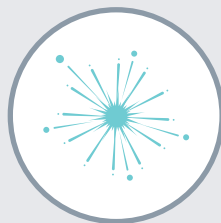
## Minerals in the rough



Third-most-commonly-used structural metal



Lightest of all structural metals



Burns brightly so often used in fireworks and flares



Essential for photosynthesis

## The source

Found in 60 minerals, only dolomite, magnesite, brucite, carnallite, talc, and olivine are of commercial importance.



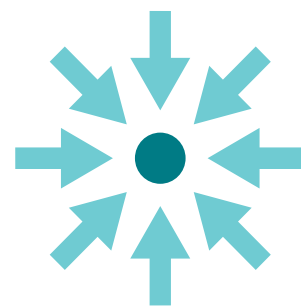
Comprises 2% of Earth's crust

220 MILLION TONNES

Australia's estimated economic resources of magnesite



Formed in stars by fusion of helium and neon



Magnesium is a highly reactive metal yet creates **stable, strong, lightweight alloys** when mixed with other metals.



### LIGHTWEIGHT VEHICLES



Lighter weight = less fuel = less emissions



Used in car components and body



Magnesium alloys are lightweight and strong



Used in smartphones



Used in laptops