

ALUMINIUM

...The metal of the future

Properties that contribute to aluminium's widespread use:

- **Light-weight** - its density is only one third that of steel.
- **Resistant** - to weather, common atmospheric gases, and a wide range of liquids.
- **Non-reactive** - can be used in contact with a wide range of food stuffs.
- **Highly reflective** - has more decorative uses.
- **Strong** - alloys can equal or even exceed the strength of normal construction steel.
- **Highly elastic** - an advantage in structures under shock loads.
- **Hard** - remains tough down to very low temperatures, without becoming brittle-like carbon steels.
- **Flexible** - is easily worked and formed; it can be rolled to very thin foil.
- **Transmits energy** - conducts electricity and heat nearly as well as copper.

Global Aluminum Content

Aircraft

- Aluminium is the primary aircraft material, comprising about 80 per cent of an aircraft's unladen weight.
- The standard Boeing 747 jumbo jet contains approx. 75,000kg of aluminium.

Motor vehicles

- In North America, aluminum is the second most used material in new cars and trucks averaging 319 lbs in passenger cars and trucks.
- Use of aluminium is rising fast because it offers consumers safety, environmental and driving performance at a cost-effective value.
- Automakers increasingly turn to aluminum to improve fuel economy, safety and driving performance.

