

# Aluminium – the Most Abundant Metals

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# Aluminum

Most abundant METAL in the earth's crust

**8%**  
OF THE EARTH'S CRUST  
IS ALUMINUM



**Al**

THE MOST POPULAR ALUMINUM COMPOUND

**Alum**



$XAl(SO_4)_2 \cdot 12H_2O$

**Aluminium oxide**



$Al_2O_3$



# USES OF ALUMINUM

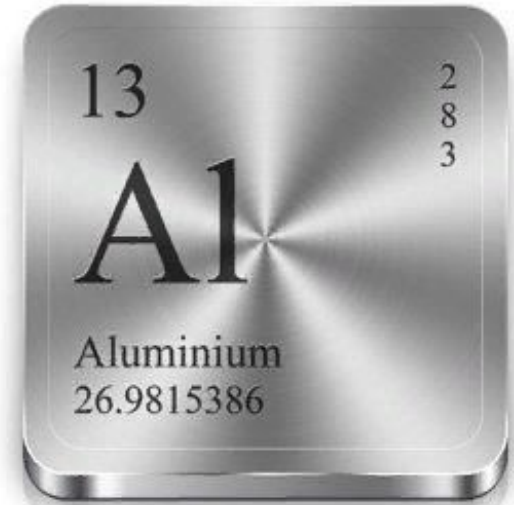


# Physical Properties of Aluminum

DENSITY 26.9815 g / cm<sup>3</sup>,

MELTING POINT 1220 Fahrenheit

ATOMIC RADIUS of 143 pm

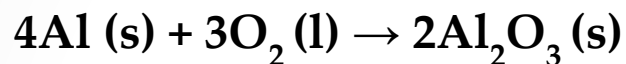


- ELECTRICAL CONDUCTIVITY
- THERMAL CONDUCTIVITY
- CORROSION RESISTANCE
- REFLECTIVITY
- PLASTIC

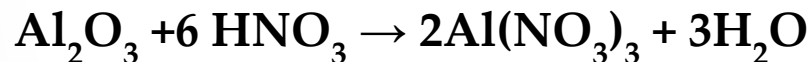
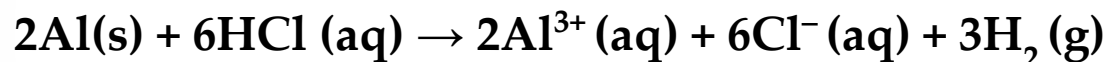


# Chemical Properties of Aluminum

## 1. Reaction of Aluminium with Air



## 2. Reaction of Aluminium with Acids:



## 3. Reaction of Aluminium with Alkalis

