

# GALLIUM (Ga)



Gallium is a silver-white, easily liquefied Metal. It already melts at 29.8 degrees and only boils at 2403 degrees Celsius. This means that gallium has the largest liquid interval of all metals. This property ensures an ever-increasing range of applications and is difficult or impossible to substitute. Gallium occurs only in small amounts in nature. The metal is usually found as an admixture in aluminum, zinc or germanium ores.

Gallium is the basis for many today it is still revolutionary emerging technical developments. In this way, researchers were able to produce "green" hydrogen from gallium and Optimizing aluminum and developing new gallium-containing super solar cells with an efficiency of almost 50 percent. Also

Gallium is installed in the high-frequency components and power amplifiers for the SG and 6G mobile network, as well as in solid oxide fuel cells. With such research results, gallium will be indispensable for Industry 4.0, some are already talking about "new oil".

## GROWTH MARKETS

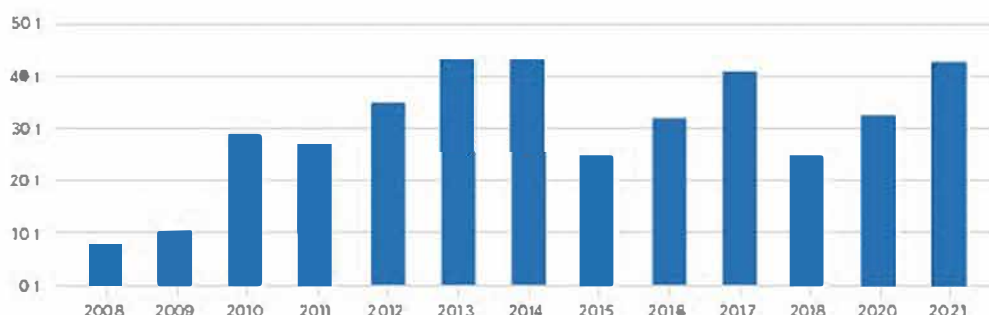
- Integrated circuits
- LEDs
- Alloys, batteries, magnets
- Solar technology
- "Green" hydrogen
- Computer cooling systems

## Price development and production quantities



The gallium price is up 64.8 percent from 01/01/2021 to 01/31/2023.

### Production quantities in tons



The production volume could not be increased since 2013, although the demand for gallium is increasing. In the According to a study by EuroMetaux, in 2050 the amount required worldwide will be 77% higher than in 2020.