

Rare Earth Elements (REE) Declaration

Rare Earth Elements (REEs) are a group of 17 metallic elements consisting of the lanthanide series along with scandium and yttrium. These elements are used across various industrial applications due to their magnetic, phosphorescent, and catalytic properties. REEs play critical roles in technologies such as permanent magnets, optical components, LED phosphors, batteries, and specialized ceramics. Although REEs are not currently restricted under major environmental regulations such as RoHS or REACH, they are considered “critical materials” due to supply-chain constraints, geopolitical sourcing concerns, and environmental impacts associated with mining and refining. For this reason, many industries request disclosure of REE content to support transparency, sustainability reporting, and material risk assessment throughout the supply chain.

SV Microwave does not use any intentionally added Rare Earth Elements as part of its components, raw materials, or product additives in any of its Products. SV Microwave is committed to compliance with government regulations and industry standards for environmental health and protection, and will continually strive to meet the needs of our customers.

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More Information

U.S. Geological Survey (USGS) – Mineral Commodity Summaries

Most widely used official list for REEs in industry and compliance.

<https://pubs.usgs.gov/periodicals/mcs2024/mcs2024-rare-earths.pdf>

U.S. Department of Energy (DOE) – Critical Minerals List

Lists REEs as critical minerals; used in U.S. policy and supply-chain reporting.

<https://www.energy.gov/cmm/critical-minerals-and-materials-program>

International Union of Pure and Applied Chemistry (IUPAC)

Formal chemical list of lanthanides (scientific foundation).

<https://iupac.org/what-we-do/periodic-table-of-elements/>

European Commission – Critical Raw Materials

Regulatory list for EU critical raw materials and compliance.

<https://ec.europa.eu/docsroom/documents/55480>

Rare Earth Metallic Elements

Element	CAS Number	Common Industrial Use
Scandium (Sc)	7440-20-2	Strengthening aluminum alloys for aerospace and high-performance components.
Yttrium (Y)	7440-65-5	LEDs, phosphors, ceramics, and high-temperature superconductors.
Lanthanum (La)	7439-91-0	Optical glass, battery electrodes, and catalyst materials.
Cerium (Ce)	7440-45-1	Catalytic converters, glass polishing, and UV absorption.
Praseodymium (Pr)	7440-10-0	High-strength magnets, aircraft engine alloys, and specialty glasses.
Neodymium (Nd)	7440-00-8	Permanent magnets used in motors, speakers, and electronics.
Promethium (Pm)	7440-12-2	Radioisotope batteries and luminous paint (rare, radioactive).
Samarium (Sm)	7440-19-9	Samarium-cobalt magnets and nuclear reactor control rods.
Europium (Eu)	7440-53-1	Red and blue phosphors in LED and display technologies.
Gadolinium (Gd)	7440-54-2	MRI contrast agents, magnets, and neutron shielding.
Terbium (Tb)	7440-27-9	Green phosphors, magnetostrictive materials, and LED applications.
Ytterbium (Yb)	7440-64-4	Fiber-optic lasers, stress gauges, and specialized alloys.
Lutetium (Lu)	7439-94-3	PET scan detectors and high-performance catalysts.