

LEAD MATTERS TO EUROPE:

UNDERSTANDING LEAD'S CONTRIBUTION TO THE EU'S ECONOMIC SUCCESS

ENERGY & RENEWABLES



Photovoltaic cells
Nuclear reactor coolant
Radiation shielding for nuclear installations
Counterweights, e.g. for wind turbines

GRID TECHNOLOGY



High-voltage 'export' cable sheathing
Undersea interconnector cable sheathing

DEFENCE & AEROSPACE



Small-calibre ammunitions
Marine ballast
Dry-film lubricants and seals
Artillery de-coppering
Solders
Alloys
Aircraft canopy fracture cord

SAFETY



Radiation shielding, including for medical diagnostics, treatment, radiopharmaceutical uses, security, NDT, atomic research
Earthquake protection, vibration reduction
Acid resistance and chemical protection
Acoustic barriers and soundproofing
Vibration reduction
Specialist gas detectors

CULTURAL APPLICATIONS



Stained glass windows
Musical instruments
Sculptures & artworks
Sports equipment (golf clubs, diving weights)

INDUSTRIAL USES



Alloys for precision engineering components, e.g. bearings
Anodes for electro-metal operations
Solder, e.g. in specialist electronics
Dry-film lubricants and seals for high-speed rotating equipment
Ballast, weights and counterweights
Joint sealant wool
Moulds for precision casting

MATERIAL PRODUCTION & METALS RECYCLING



Cost-effective production of a range of metals including the critical raw materials copper, platinum and bismuth
Carrier metal used in recycling of other metals from complex waste streams
Byproducts of zinc and silver manufacture
Precursor (chemical intermediate) for the manufacture of other lead-based substances

RESEARCH & INNOVATION



Laboratory reagent for research and quality testing
Precious metal assay
Radiation shielding for e.g. atomic and high-energy laser research
Low-background lead for detector shields

CONSTRUCTION



Architectural lead sheet
Flashing and waterproofing
Heritage and historical building uses

HEALTH & MEDICAL



Radiation shielding for X-rays and CT scanners and PET scanners, and nuclear imaging
Oxygen sensors for ventilators and respirators
Isotope pots for nuclear medicine

FLIP TO SEE LEAD BATTERY APPLICATIONS

LEAD BATTERY APPLICATIONS

ENERGY STORAGE



Wind Energy Storage



Solar Energy Storage



Nuclear



Grids Stabilisation

UTILITIES, INDUSTRIAL POWER AND RESIDENTIAL POWER



Residential and Small Commercial Energy Storage



Charging Stations



Micro Grids

DATA CENTRES



Cloud Data Centres



Enterprise and Data Centres



AI Data Centres

COMMUNICATION NETWORKS



Telecommunication Centre
Uninterruptible Power Supply



5G and Small Cells



Cell Towers Uninterruptible Power Supply

AEROSPACE AND DEFENCE



Aircrafts and Aircraft Carriers



Communication Systems



Tanks and Other Military Vehicles

MARINE



Boats, Cruise ships and Yachts



Submarines



Cargo Ships

TRANSPORTATION AND RECREATIONAL VEHICLES



Trains



Buses



Hybrid and Electric Vehicles



ICE Passenger Cars

SECURITY AND PUBLIC SAFETY



Weather Stations



Fire Trucks and Fire Support Vehicles



Police Vehicles

MEDICAL



Hospital Uninterruptible Power Supply



Ambulances



Wheelchairs



Helicopters

AGRICULTURE



Tractors



Harvesters



Balers

CONSTRUCTION EQUIPMENT AND TOOLS



Excavators



Bulldozers



Generators



Mobile Elevated Work Platforms

LOGISTICS AND WAREHOUSING



Delivery Vehicles



Lifts and Pallet Trucks



Semitrucks

FLIP TO SEE LEAD APPLICATIONS