

THE PERIODIC TABLE OF MAJOR ELEMENT APPLICATIONS

This table highlights each element's major application – that is, the application for which the greatest amount of the element or its compounds are used.

Elements highlighted as 'research only' are those that do not have any commercial applications.

HYDROGEN H  Ammonia synthesis																	HELIUM He  NMR/MRI magnet coolant																
LITHIUM Li  Li-ion batteries	BERYLLIUM Be  Electronic components																	BORON B  Glass and ceramics	CARBON C  Fossil fuels	NITROGEN N  Fertilisers	OXYGEN O  Steel manufacture	FLUORINE F  Preparing nuclear fuel	NEON Ne  Neon lights										
SODIUM Na  Table salt	MAGNESIUM Mg  Aluminium alloys																	ALUMINIUM Al  Making vehicles	SILICON Si  Aluminium alloys	PHOSPHORUS P  Fertilisers	SULFUR S  Sulfuric acid	CHLORINE Cl  PVC plastic	ARGON Ar  Inert gas for welding										
POTASSIUM K  Fertilisers	CALCIUM Ca  Steel manufacture	SCANDIUM Sc  Aluminium alloys	TITANIUM Ti  White pigments	VANADIUM V  Steel additive	CHROMIUM Cr  Stainless steel	MANGANESE Mn  Steel manufacture	IRON Fe  Steel	COBALT Co  Superalloys (aircraft)	NICKEL Ni  Stainless steel	COPPER Cu  Electrical wiring	ZINC Zn  Galvanising	GALLIUM Ga  Semiconductors	GERMANIUM Ge  Fibre optics	ARSENIC As  Alloys with lead	SELENIUM Se  Glassmaking (red glass)	BROMINE Br  Flame retardants	KRYPTON Kr  Fluorescent lamps																
RUBIDIUM Rb  Specialty glass (fibre optics)	STRONTIUM Sr  Additive in drilling fluids	YTTRIUM Y  Ceramics	ZIRCONIUM Zr  Ceramics	NIوبيUM Nb  Steel manufacture	MOLYBDENUM Mo  Steel manufacture	TECHNETIUM Tc  Radiopharmaceuticals	RUTHENIUM Ru  Electrical contacts	RHODIUM Rh  Catalytic converters	PALLADIUM Pd  Catalytic converters	SILVER Ag  Jewellery and silverware	CADMIUM Cd  Nickel-cadmium batteries	INDIUM In  Touch screens	TIN Sn  Tin plating	ANTIMONY Sb  Flame retardants	TELLURIUM Te  Steel, copper and lead alloys	IODINE I  X-ray contrast media	XENON Xe  Flash lamps																
CAESIUM Cs  Drilling fluids	BARIUM Ba  Drilling fluids	La-Lu		HAFNIUM Hf  Nuclear reactor control rods	TANTALUM Ta  Electronic components	TUNGSTEN W  Tools	RHENIUM Re  High-temp. superalloys	OSMIUM Os  Electrical contacts	IRIDIUM Ir  Iridium crucibles	PLATINUM Pt  Catalytic converters	GOLD Au  Jewellery	MERCURY Hg  Dental amalgam	THALLIUM Tl  Photoresistors	LEAD Pb  Lead-acid batteries in cars	BISMUTH Bi  Drugs/pigments/cosmetics	POLONIUM Po  Antistatic devices	ASTATINE At  Research only	RADON Rn  Research only															
FRANCIUM Fr  Research	RADIUM Ra  Cancer treatment	Ac-Lr		RUTHERFORDIUM Rf  Research only	DUBNIUM Db  Research only	SEABORGIUM Sg  Research only	BOHRIUM Bh  Research only	HASSIUM Hs  Research only	MEITNERIUM Mt  Research only	DARMSTADIUM Ds  Research only	ROENTGENIUM Rg  Research only	COPERNICIUM Cn  Research only	NIHONIUM Nh  Research only	FLEROVIUM Fl  Research only	MOSCOVIUM Mc  Research only	LIVERMORIUM Lv  Research only	TENNESSINE Ts  Research only	OGANESSON Og  Research only															
																			LANTHANUM La  Hybrid car batteries	CERIUM Ce  Glass polishing	PRASEODYMIUM Pr  High-strength alloys	NEODYMIUM Nd  NdFeB magnets	PROMETHIUM Pm  Research only	SAMARIUM Sm  SmCo magnets	EUROPIUM Eu  Red phosphors	GADOLINIUM Gd  MRI contrast agent	TERBIUM Tb  Green phosphors	DYSPROSIUM Dy  NdFeB magnets	HOLMIUM Ho  Magnet pole pieces	ERBIUM Er  Optical fibres	THULIUM Tm  Surgical lasers	YTTERBIUM Yb  Lasers	LUTETIUM Lu  Catalyst (cracking)
																			ACTINIUM Ac  Research only	THORIUM Th  Heat-resistant ceramics	PROTACTINIUM Pa  Research only	URANIUM U  Nuclear fuel	NEPTUNIUM Np  Plutonium production	PLUTONIUM Pu  Nuclear weapons	AMERICIUM Am  Smoke detectors	CURIUM Cm  Space probe spectrometers	BERKELIUM Bk  Research only	CALIFORNIUM Cf  Nuclear reactor start-up	EINSTEINIUM Es  Research only	FERMIUM Fm  Research only	MENDELEVIUM Md  Research only	NOBELIUM No  Research only	LAWRENCIUM Lr  Research only