

. NAME TWO METALS : A. WHICH CAN REACT WITH COLD WATER. B. WHICH CAN REACT ONLY WITH STEAM. C. WHICH

NAME TWO METALS : A. WHICH CAN REACT WITH COLD WATER. B. WHICH CAN REACT ONLY WITH STEAM. C. WHICH

UNDERSTANDING THE REACTIVITY OF METALS WITH WATER IS FUNDAMENTAL IN CHEMISTRY, ESPECIALLY WHEN EXPLORING THEIR APPLICATIONS, SAFETY MEASURES, AND CHEMICAL PROPERTIES. METALS DIFFER SIGNIFICANTLY IN HOW THEY INTERACT WITH WATER, DEPENDING ON THEIR POSITION IN THE REACTIVITY SERIES, THEIR CHEMICAL STRUCTURE, AND OTHER FACTORS. THIS ARTICLE EXPLORES TWO SPECIFIC METALS—HIGHLIGHTING WHICH CAN REACT WITH COLD WATER, WHICH CAN ONLY REACT WITH STEAM, AND OTHER RELEVANT DETAILS FOR EACH. WHETHER YOU ARE A STUDENT, EDUCATOR, OR ENTHUSIAST, THIS COMPREHENSIVE OVERVIEW WILL CLARIFY THESE CONCEPTS WITH CLEAR EXPLANATIONS AND SUPPORTING DETAILS.

METALS THAT REACT WITH COLD WATER

CERTAIN METALS ARE HIGHLY REACTIVE AND READILY INTERACT WITH COLD WATER AT ROOM TEMPERATURE. THESE REACTIONS OFTEN PRODUCE METAL HYDROXIDES AND HYDROGEN GAS, SOMETIMES ACCOMPANIED BY VIGOROUS BUBBLING OR EVEN EXPLOSIONS. THE REACTIVITY DEPENDS ON THE METAL'S POSITION IN THE REACTIVITY SERIES, WITH ALKALI AND ALKALINE EARTH METALS BEING THE MOST REACTIVE IN THIS REGARD.

1. ALKALI METALS

ALKALI METALS ARE FOUND IN GROUP 1 OF THE PERIODIC TABLE AND ARE CHARACTERIZED BY HAVING A SINGLE VALENCE ELECTRON, MAKING THEM HIGHLY REACTIVE.

- **SODIUM (Na):** REACTS VIGOROUSLY WITH COLD WATER TO PRODUCE SODIUM HYDROXIDE (NaOH) AND HYDROGEN GAS (H_2). THE REACTION IS EXOTHERMIC AND MAY CAUSE SPLATTERING.
- **POTASSIUM (K):** REACTS EVEN MORE VIGOROUSLY THAN SODIUM, OFTEN PRODUCING LILAC-COLORED FLAMES AND HYDROGEN GAS.
- **LITHIUM (Li):** REACTS WITH COLD WATER, BUT LESS VIGOROUSLY COMPARED TO SODIUM AND POTASSIUM.

2. ALKALINE EARTH METALS

THESE METALS BELONG TO GROUP 2 AND ARE LESS REACTIVE THAN ALKALI METALS BUT STILL REACT WITH WATER.

- **CALCIUM (Ca):** REACTS SLOWLY WITH COLD WATER, FORMING CALCIUM HYDROXIDE AND HYDROGEN GAS.
- **MAGNESIUM (Mg):** VERY SLOW TO REACT WITH COLD WATER; MORE REACTIVE WITH HOT WATER OR STEAM.

SUMMARY OF METALS REACTING WITH COLD WATER

Metal	Reaction with Cold Water	Products
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Sodium	Yes, vigorous	Sodium hydroxide + hydrogen gas
Potassium	Yes, very vigorous	Potassium hydroxide + hydrogen gas
Calcium	Yes, slow	Calcium hydroxide + hydrogen gas
Magnesium	Very limited with cold water	Minimal reaction; more reactive with hot water or steam

METALS THAT REACT ONLY WITH STEAM

SOME METALS ARE TOO REACTIVE TO REACT SIGNIFICANTLY WITH COLD WATER BUT CAN REACT WITH HOT WATER OR STEAM. THESE REACTIONS TYPICALLY REQUIRE ELEVATED TEMPERATURES TO PROCEED AND ARE OFTEN USED IN INDUSTRIAL PROCESSES OR METAL EXTRACTION.

1. ZINC (Zn)

ZINC IS A MODERATELY REACTIVE METAL THAT DOES NOT USUALLY REACT WITH COLD WATER BUT REACTS WITH STEAM AT HIGH TEMPERATURES.

- **REACTION WITH STEAM:** ZINC REACTS WITH HOT STEAM TO PRODUCE ZINC OXIDE (ZnO) AND HYDROGEN GAS.
- **REACTION CONDITIONS:** REQUIRES HEATING ZINC TO PRODUCE REACTION WITH STEAM.

2. IRON (Fe)

IRON GENERALLY DOES NOT REACT WITH COLD WATER BUT REACTS WITH STEAM AT HIGH TEMPERATURES.

- **REACTION WITH STEAM:** PRODUCES IRON OXIDE AND HYDROGEN GAS.
- **INDUSTRIAL APPLICATIONS:** USED IN PROCESSES INVOLVING HIGH-TEMPERATURE STEAM.

SUMMARY OF METALS REACTING ONLY WITH STEAM

Metal Reaction with Cold Water		Reaction with Steam	Products
Zinc	No	Yes	Zinc oxide + hydrogen gas
Iron	No	Yes	Iron oxide + hydrogen gas

ADDITIONAL METALS AND THEIR REACTIVITY

WHILE THE PRIMARY FOCUS IS ON METALS REACTING WITH COLD WATER OR STEAM, IT'S IMPORTANT TO UNDERSTAND THAT MANY OTHER METALS EXHIBIT DIFFERENT BEHAVIORS:

- **LEAD (Pb):** DOES NOT REACT WITH WATER OR STEAM UNDER NORMAL CONDITIONS.
- **COPPER (Cu):** GENERALLY UNREACTIVE WITH WATER AND STEAM; USED FOR ELECTRICAL WIRING.
- **SILVER (Ag):** CHEMICALLY INERT WITH WATER AND STEAM.

THIS HIGHLIGHTS THE IMPORTANCE OF UNDERSTANDING EACH METAL'S POSITION IN THE REACTIVITY SERIES FOR PRACTICAL APPLICATIONS AND SAFETY CONSIDERATIONS.

PRACTICAL APPLICATIONS AND SAFETY CONSIDERATIONS

UNDERSTANDING HOW METALS REACT WITH WATER AND STEAM HAS PRACTICAL IMPLICATIONS:

1. **STORAGE AND HANDLING:** HIGHLY REACTIVE METALS LIKE SODIUM AND POTASSIUM MUST BE STORED UNDER OIL TO PREVENT ACCIDENTAL REACTIONS WITH MOISTURE.
2. **INDUSTRIAL PROCESSES:** METALS REACTING WITH STEAM ARE USED IN MANUFACTURING PROCESSES, SUCH AS ZINC OXIDE PRODUCTION.
3. **SAFETY PRECAUTIONS:** REACTIONS WITH WATER PRODUCE HYDROGEN GAS, WHICH IS FLAMMABLE AND EXPLOSIVE; PROPER VENTILATION AND SAFETY MEASURES ARE ESSENTIAL.

SUMMARY AND KEY TAKEAWAYS

- **METALS THAT REACT WITH COLD WATER:** ALKALI METALS (SODIUM, POTASSIUM), AND SOME ALKALINE EARTH METALS (CALCIUM).
- **METALS THAT REACT ONLY WITH STEAM:** ZINC AND IRON, REQUIRING HIGH TEMPERATURES OR STEAM FOR REACTION.
- **METALS LIKE COPPER, SILVER, AND LEAD:** GENERALLY UNREACTIVE WITH WATER OR STEAM, SUITABLE FOR VARIOUS APPLICATIONS DUE TO THEIR INERTNESS.

UNDERSTANDING THESE DISTINCTIONS HELPS IN SELECTING THE RIGHT METALS FOR SPECIFIC APPLICATIONS, ENSURING SAFETY, AND OPTIMIZING INDUSTRIAL PROCESSES. WHETHER DEALING WITH REACTIVE METALS THAT MUST BE CAREFULLY HANDLED OR USING INERT METALS IN CONSTRUCTION, KNOWLEDGE OF THEIR REACTIVITY WITH WATER AND STEAM IS ESSENTIAL IN CHEMISTRY AND ENGINEERING.

NOTE: ALWAYS EXERCISE CAUTION WHEN WORKING WITH REACTIVE METALS, ESPECIALLY THOSE THAT PRODUCE FLAMMABLE

GASES LIKE HYDROGEN. PROPER SAFETY EQUIPMENT AND PROCEDURES SHOULD BE FOLLOWED TO PREVENT ACCIDENTS.

FREQUENTLY ASKED QUESTIONS

WHICH TWO METALS CAN REACT WITH COLD WATER?

SODIUM AND POTASSIUM ARE METALS THAT REACT VIGOROUSLY WITH COLD WATER, PRODUCING HYDROXIDES AND HYDROGEN GAS.

WHICH METAL CAN REACT ONLY WITH STEAM AND NOT WITH COLD WATER?

IRON CAN REACT WITH STEAM AT HIGH TEMPERATURES, BUT IT DOES NOT REACT READILY WITH COLD WATER.

CAN MAGNESIUM REACT WITH COLD WATER, AND IF SO, HOW?

MAGNESIUM REACTS VERY SLOWLY WITH COLD WATER, BUT IT REACTS MORE READILY WITH HOT WATER OR STEAM.

WHICH METALS ARE KNOWN TO REACT WITH STEAM BUT NOT WITH COLD WATER?

METALS LIKE IRON, ZINC, AND ALUMINUM REACT WITH STEAM AT HIGH TEMPERATURES BUT SHOW LITTLE TO NO REACTION WITH COLD WATER.

WHY DO ALKALI METALS LIKE SODIUM AND POTASSIUM REACT WITH COLD WATER?

BECAUSE ALKALI METALS HAVE A SINGLE VALENCE ELECTRON THAT THEY READILY LOSE, REACTING VIGOROUSLY WITH WATER TO FORM HYDROXIDES AND HYDROGEN GAS.

WHAT SAFETY PRECAUTIONS ARE NECESSARY WHEN TESTING METAL REACTIONS WITH WATER?

USE PROTECTIVE GEAR, CONDUCT TESTS IN A CONTROLLED ENVIRONMENT, AND KEEP A FIRE EXTINGUISHER NEARBY DUE TO POTENTIAL HYDROGEN GAS IGNITION.

WHICH METALS CAN REACT WITH STEAM BUT ARE STABLE IN COLD WATER?

METALS SUCH AS IRON AND ZINC CAN REACT WITH STEAM AT HIGH TEMPERATURES BUT REMAIN UNREACTIVE WITH COLD WATER.

HOW DOES TEMPERATURE INFLUENCE METAL REACTIVITY WITH WATER OR STEAM?

HIGHER TEMPERATURES INCREASE THE REACTION RATE, ENABLING SOME METALS TO REACT WITH STEAM EVEN IF THEY DON'T REACT WITH COLD WATER.

ADDITIONAL RESOURCES

METALS AND THEIR REACTIVITY WITH WATER: AN IN-DEPTH EXPLORATION

UNDERSTANDING THE REACTIVITY OF METALS WITH WATER IS FUNDAMENTAL IN CHEMISTRY, ESPECIALLY IN FIELDS LIKE METALLURGY, CORROSION SCIENCE, AND CHEMICAL MANUFACTURING. METALS DIFFER SIGNIFICANTLY IN HOW THEY INTERACT WITH WATER, DEPENDING ON THEIR POSITION IN THE REACTIVITY SERIES, THEIR ELECTRONIC CONFIGURATION, AND THEIR OXIDE FORMATION TENDENCIES. THIS DETAILED REVIEW WILL EXPLORE TWO SPECIFIC METALS UNDER THE THEME "NAME TWO METALS": ONE THAT REACTS WITH COLD WATER, AND ANOTHER THAT REACTS ONLY WITH STEAM. WE WILL ALSO DELVE INTO AN

ADDITIONAL METAL, PROVIDING A COMPREHENSIVE UNDERSTANDING OF THEIR BEHAVIOR, MECHANISMS, AND PRACTICAL IMPLICATIONS.

INTRODUCTION TO METAL REACTIVITY WITH WATER

WATER (H_2O) IS A COMMON AND VITAL COMPOUND THAT CAN SERVE AS A REACTANT WITH METALS, LEADING TO VARIOUS PRODUCTS SUCH AS METAL HYDROXIDES AND HYDROGEN GAS. THE NATURE OF THE METAL-WATER INTERACTION IS PRIMARILY DICTATED BY THE METAL'S POSITION IN THE REACTIVITY SERIES:

- METALS HIGH IN THE SERIES TEND TO REACT VIGOROUSLY, EVEN WITH COLD WATER.
- METALS LOWER IN THE SERIES MAY REQUIRE HEATING (STEAM) TO REACT AND OFTEN DO SO MORE SLOWLY OR UNDER SPECIFIC CONDITIONS.
- SOME METALS ARE ESSENTIALLY UNREACTIVE WITH WATER UNDER NORMAL CONDITIONS.

METAL THAT REACTS WITH COLD WATER: SODIUM (Na)

OVERVIEW OF SODIUM'S REACTIVITY

SODIUM (Na), AN ALKALI METAL LOCATED IN GROUP 1 OF THE PERIODIC TABLE, EXHIBITS A HIGH DEGREE OF REACTIVITY WITH WATER. ITS REACTION WITH WATER IS NOT ONLY VIGOROUS BUT ALSO EXOTHERMIC, OFTEN PRODUCING HYDROGEN GAS AND A CORRESPONDING ALKALINE SOLUTION.

MECHANISM OF REACTION WITH COLD WATER

THE REACTION PROCEEDS AS FOLLOWS:



- INITIAL CONTACT: WHEN SODIUM METAL IS INTRODUCED TO WATER AT ROOM TEMPERATURE, IT QUICKLY BEGINS TO REACT.
- REACTION STEPS:
 - SODIUM ATOMS LOSE ELECTRONS TO FORM Na^+ IONS.
 - THESE Na^+ IONS COMBINE WITH WATER MOLECULES TO PRODUCE SODIUM HYDROXIDE (NaOH), A STRONG BASE.
 - SIMULTANEOUSLY, HYDROGEN GAS (H_2) IS RELEASED, OFTEN OBSERVED AS BUBBLES OR EFFERVESCENCE.

KEY POINTS:

- THE REACTION IS HIGHLY EXOTHERMIC, RELEASING HEAT SUFFICIENT TO IGNITE THE HYDROGEN GAS IN SOME CASES.
- SODIUM OFTEN MELTS INTO A SHINY BALL OR GLOBULE DURING THE REACTION DUE TO THE HEAT.
- THE RESULTING SOLUTION IS STRONGLY ALKALINE, WITH pH VALUES AROUND 13.

IMPLICATIONS AND PRACTICAL CONSIDERATIONS

- INDUSTRIAL USES: SODIUM'S REACTIVITY MAKES IT USEFUL IN ORGANIC SYNTHESIS, AS A REDUCING AGENT, AND IN THE MANUFACTURE OF SODIUM COMPOUNDS.

- SAFETY PRECAUTIONS:
- MUST BE STORED UNDER OIL OR IN AN INERT ATMOSPHERE TO PREVENT ACCIDENTAL REACTIONS.
- HANDLING REQUIRES PROTECTIVE GEAR TO AVOID BURNS OR EXPLOSIONS.
- ENVIRONMENTAL IMPACT:
- SODIUM HYDROXIDE PRODUCED CAN CAUSE ENVIRONMENTAL DAMAGE IF NOT MANAGED PROPERLY.

SUMMARY

SODIUM'S ABILITY TO REACT WITH COLD WATER IS A DEFINING CHARACTERISTIC OF ALKALI METALS, MAKING IT A PRIME EXAMPLE OF METALS WITH EXTREME REACTIVITY. ITS VIGOROUS REACTION UNDERSCORES THE IMPORTANCE OF SAFETY AND PROPER HANDLING IN LABORATORY AND INDUSTRIAL SETTINGS.

METAL THAT REACTS ONLY WITH STEAM: IRON (Fe)

OVERVIEW OF IRON'S REACTIVITY

IRON, A TRANSITION METAL IN GROUP 8, IS MUCH LESS REACTIVE WITH WATER AT ROOM TEMPERATURE. IT REACTS VERY SLOWLY WITH COLD WATER BUT CAN BE MADE TO REACT WITH STEAM AT ELEVATED TEMPERATURES.

REACTION WITH COLD WATER VS. STEAM

- WITH COLD WATER:
- IRON DOES NOT READILY REACT WITH COLD WATER.
- THE REACTION, IF ANY, IS VERY SLOW AND NEGLIGIBLE UNDER NORMAL CONDITIONS.
- WITH STEAM (HOT WATER VAPOR):
- WHEN IRON IS HEATED TO HIGH TEMPERATURES AND EXPOSED TO STEAM, A MORE SIGNIFICANT REACTION OCCURS.

REACTION WITH STEAM:



ALTERNATIVELY, UNDER CERTAIN CONDITIONS, IRON CAN FORM FERROUS OR FERRIC OXIDES DEPENDING ON TEMPERATURE AND ENVIRONMENT.

MECHANISM:

- ELEVATED TEMPERATURE PROVIDES THE NECESSARY ACTIVATION ENERGY FOR THE REACTION.
- STEAM ACTS AS AN OXIDIZING AGENT, CONVERTING IRON INTO IRON OXIDES.
- HYDROGEN GAS IS LIBERATED, WHICH CAN BE COLLECTED OR UTILIZED IN OTHER PROCESSES.

KEY POINTS:

- THE REACTION IS SLOW AT ROOM TEMPERATURE BUT ACCELERATES WITH INCREASED TEMPERATURE.
- THE FORMATION OF IRON OXIDES (LIKE MAGNETITE, Fe_3O_4) RESULTS IN RUSTING OR CORROSION WHEN IRON IS EXPOSED TO MOIST, HOT ENVIRONMENTS.
- THE PROCESS IS EXPLOITED IN STEEL MANUFACTURING AND CORROSION STUDIES.

INDUSTRIAL AND PRACTICAL IMPLICATIONS

- STEEL PRODUCTION:
- THE REACTION WITH STEAM IS HARNESSSED IN PROCESSES SUCH AS DIRECT REDUCTION OF IRON ORES.
- CORROSION AND RUSTING:
- IRON'S REACTION WITH MOISTURE AND OXYGEN LEADS TO RUST FORMATION, WHICH INVOLVES COMPLEX REACTIONS WITH WATER AND OXYGEN.
- PROTECTION STRATEGIES:
- APPLYING COATINGS (PAINT, GALVANIZATION) TO PREVENT EXPOSURE TO STEAM OR MOISTURE.
- USING ALLOYING ELEMENTS TO IMPROVE CORROSION RESISTANCE.

SUMMARY

IRON'S REACTIVITY PROFILE EXEMPLIFIES A METAL THAT RESISTS REACTION WITH COLD WATER BUT BECOMES REACTIVE WHEN EXPOSED TO HOT WATER VAPOR OR STEAM, ESPECIALLY AT ELEVATED TEMPERATURES. THIS CHARACTERISTIC IS FUNDAMENTAL IN UNDERSTANDING CORROSION, STEEL MANUFACTURING, AND MATERIALS SCIENCE.

ADDITIONAL METAL: ZINC (Zn) — REACTIVITY WITH WATER

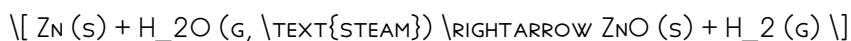
OVERVIEW OF ZINC'S REACTIVITY

ZINC IS A TRANSITION METAL IN GROUP 12, WITH REACTIVITY THAT IS MODERATE COMPARED TO ALKALI METALS AND IRON. UNDER NORMAL CONDITIONS, ZINC DOES NOT REACT SIGNIFICANTLY WITH COLD WATER BUT CAN REACT WITH STEAM UNDER SPECIFIC CIRCUMSTANCES.

REACTIVITY WITH COLD WATER AND STEAM

- WITH COLD WATER:
- ZINC EXHIBITS MINIMAL REACTIVITY.
- SLIGHT REACTION MAY OCCUR OVER LONG PERIODS, PRODUCING ZINC HYDROXIDE AND HYDROGEN, BUT THIS IS NEGLIGIBLE AT ROOM TEMPERATURE.
- WITH STEAM:
- HEATING ZINC IN THE PRESENCE OF STEAM LEADS TO OXIDATION.

REACTION EQUATION:



- OCCURS AT HIGH TEMPERATURES (~400°C OR ABOVE).
- PRODUCES ZINC OXIDE, A WHITE POWDER USED IN VARIOUS APPLICATIONS.

MECHANISM:

- ELEVATED TEMPERATURE PROVIDES ENERGY TO OVERCOME ACTIVATION BARRIERS.
- STEAM ACTS AS AN OXIDIZING AGENT, CONVERTING ZINC INTO ZINC OXIDE.

IMPLICATIONS AND USES

- CORROSION RESISTANCE:
- ZINC'S TENDENCY TO FORM A PROTECTIVE OXIDE LAYER (ZINC OXIDE) SHIELDS UNDERLYING METAL, WHICH IS EXPLOITED IN GALVANIZATION.
- MANUFACTURING:
- ZINC OXIDE IS USED IN RUBBER, CERAMICS, AND AS A UV ABSORBER.
- ENVIRONMENTAL CONSIDERATIONS:
- ZINC'S MODERATE REACTIVITY MAKES IT RELATIVELY STABLE, BUT HIGH-TEMPERATURE REACTIONS WITH STEAM ARE SIGNIFICANT IN MANUFACTURING PROCESSES.

SUMMARY

ZINC'S REACTIVITY PATTERN—MINIMAL WITH COLD WATER BUT REACTIVE WITH STEAM—MAKES IT A VALUABLE METAL IN CORROSION PROTECTION AND INDUSTRIAL APPLICATIONS, SHOWCASING THE IMPORTANCE OF TEMPERATURE IN DICTATING REACTIVITY.

CONCLUDING REMARKS: THE SIGNIFICANCE OF METAL-WATER REACTIVITY

UNDERSTANDING HOW DIFFERENT METALS REACT WITH WATER AND STEAM IS PIVOTAL FOR MULTIPLE SCIENTIFIC AND INDUSTRIAL APPLICATIONS. THE EXAMPLES OF SODIUM AND IRON HIGHLIGHT THE SPECTRUM OF REACTIVITY:

- SODIUM: REACTS VIGOROUSLY WITH COLD WATER, DEMONSTRATING HIGH REACTIVITY TYPICAL OF ALKALI METALS.
- IRON: REACTS ONLY WITH STEAM AT ELEVATED TEMPERATURES, ILLUSTRATING LOW REACTIVITY AT ROOM TEMPERATURE BUT INCREASED ACTIVITY UNDER HEAT.
- ZINC: EXHIBITS MODERATE REACTIVITY, REACTING WITH STEAM AT HIGH TEMPERATURES BUT REMAINING RELATIVELY INERT WITH COLD WATER.

THIS KNOWLEDGE INFORMS SAFE HANDLING, STORAGE, AND UTILIZATION OF METALS, INFLUENCING EVERYTHING FROM CORROSION PREVENTION TO MANUFACTURING PROCESSES. IT ALSO UNDERSCORES THE IMPORTANCE OF THE REACTIVITY SERIES AND THE ROLE OF TEMPERATURE IN CHEMICAL REACTIONS.

FINAL THOUGHTS

THE REACTIVITY OF METALS WITH WATER IS A FASCINATING ASPECT OF INORGANIC CHEMISTRY THAT COMBINES THEORETICAL PRINCIPLES WITH PRACTICAL APPLICATIONS. RECOGNIZING THE CONDITIONS UNDER WHICH METALS REACT ALLOWS CHEMISTS AND ENGINEERS TO DESIGN SAFER PROCESSES, DEVELOP CORROSION-RESISTANT MATERIALS, AND INNOVATE NEW USES FOR METALS BASED ON THEIR CHEMICAL BEHAVIOR.

BY THOROUGHLY UNDERSTANDING THE REACTIVITY PROFILES OF METALS LIKE SODIUM, IRON, AND ZINC, WE GAIN INSIGHTS INTO FUNDAMENTAL CHEMICAL PRINCIPLES AND THEIR REAL-WORLD IMPLICATIONS, ENSURING BETTER SAFETY, EFFICIENCY, AND TECHNOLOGICAL ADVANCEMENT IN VARIOUS INDUSTRIES.

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