

REACTIONS WITH WATER

metal	observations
potassium	<ul style="list-style-type: none"> reacts violently with cold water hydrogen gas catches fire and explodes
sodium	<ul style="list-style-type: none"> reacts violently with cold water hydrogen gas may catch fire
calcium	<ul style="list-style-type: none"> reacts moderately with cold water
magnesium	<ul style="list-style-type: none"> reacts slowly with cold water hot magnesium reacts violently with steam and burns white with a white glow
aluminium	<ul style="list-style-type: none"> reacts readily with steam reaction slows down due to the formation of a protective oxide layer
zinc	<ul style="list-style-type: none"> hot zinc reacts readily with steam zinc oxide produced is yellow when hot and white when cold
iron	<ul style="list-style-type: none"> hot iron reacts slowly with steam
lead	<ul style="list-style-type: none"> no reaction
copper	<ul style="list-style-type: none"> no reaction
silver	<ul style="list-style-type: none"> no reaction
gold	<ul style="list-style-type: none"> no reaction

RUSTING OF IRON

PREVENTIVE MEASURES

- painting or covering with a layer of oil
 - protects iron from being exposed to oxygen and water
- sacrificial protection
 - more reactive metal used as sacrificial metal to corrode in place of original metal
- plating