## BAUXITE AI(OH)<sub>3</sub> + AIO(OH)



Chabot Collection

Creative Photography by Steve Clapp

Unknown Origin

### What does it look like?

The rock contains rounded, red-brown grains with an earthy lustre.

#### What is it used for?

The aluminum (Al) in alloys, foil, beverage cans, car engines, aircrafts and sporting goods.



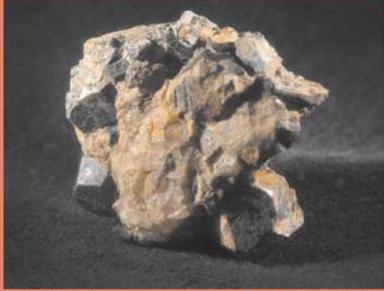


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## CASSITERITE SnO<sub>2</sub>



Vickery Collection

Creative Photography by Steve Clapp

Altenberg, Saxony, Germany

### What does it look like?

Brown to black crystals with a diamond-like to metallic lustre.

#### What is it used for?

The tin (Sn) for anti-corrosion plating, solder, 'tin' cans and housewares.





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# CHROMITE FeCr.O.



Dynamic Earth Collection

Creative Photography by Steve Clapp

"Ring of Fire", Ontario Canada

## What does it look like?

Black with metallic lustre.

### What is it used for?

Source of chromium (Cr). Cr in alloys, pigments, wood preservatives and leather tanning.





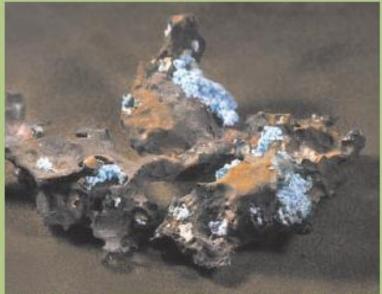
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## COPPER Cu



Vickery Collection

Creative Photography by Steve Clapp

Keweenaw Peninsula, Michigan, USA

### What does it look like?

Copper red with a shiny, metallic lustre.

#### What is it used for?

Copper (Cu) in electrical wiring, plumbing, alloys (brass, bronze), coins, machinery and electronics.





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# CELESTITE SrSO<sub>4</sub>



Vickery Collection

Creative Photography by Steve Clapp

Lime City, Ohio USA

## What does it look like?

Bluish-white colour; glassy to pearly lustre.

### What is it used for?

The strontium (Sr) is used in fireworks, flares and tracer bullets.





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# ILMENITE FeTiO,



Vickery Collection

Creative Photography by Steve Clapp

Faraday Mine, Bancroft, Ontario, Canada

## What does it look like?

Black with a metallic lustre.

### What is it used for?

Titanium (Ti) in light-weight alloys, artificial limbs, sporting goods and sunscreens.





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# SCHEELITE CaWO,



Chabot Collection

Creative Photography by Steve Clapp

Hunan, China

### What does it look like?

Orange-red colour, glassy to diamond-like lustre.

#### What is it used for?

The tungsten (W) in light bulbs, electronics, drill bits, saw teeth and rocket engines.





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# SPHAEROCOBALTITE Coco,



Vickery Collection

Creative Photography by Steve Clapp

Tsumeb, Namibia

### What does it look like?

Rose red to pink; glassy to diamond-like lustre.

### What is it used for?

Fine crystals for collecting and trading.





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## SPHALERITE ZnS



Vickery Collection

Creative Photography by Steve Clapp

Joplin, Missouri USA

### What does it look like?

Brown-black, resinous to greasy lustre.

#### What is it used for?

The zinc (Zn) in anti-rust coating, alloys, coins, vitamins, medicines, batteries, paints.





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# STIBNITE Sb<sub>2</sub>S<sub>3</sub>



chabot Collection

Creative Photography by Steve Clapp

Herja Mine, Baia Mare, Romania

#### What does it look like?

Lead-gray colour; metallic lustre with a pale blue tint.

#### What is it used for?

Collecting and trading. The antimony (Sb) in steel, electronics and fire retardants.





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# STIBNITE Sb<sub>2</sub>S<sub>3</sub>



Dynamic Earth Collection Creative Photography by Steve Clapp
Xikuangshan Mine, Leng Shui Jiang, China

#### What does it look like?

Lead-gray colour; metallic lustre with a pale blue tint.

#### What is it used for?

Collecting and trading. The antimony (Sb) in steel, electronics and fire retardants.





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## GOLD Au



Dynamic Earth Collection

Creative Photography by Steve Clapp

Granada Mine, Québec Canada

#### What does it look like?

'Golden' yellow that does not tarnish; metallic lustre.

#### What is it used for?

Gold (Au) in jewellery, dentistry, scientific instruments, electronics, coins and medallions.





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## CHALCOPYRITE WITH BORNITE CUFeS,



Dynamic Earth Collection

Creative Photography by Steve Clapp

Sudbury, Ontario Canada

#### What does it look like?

Brass to golden yellow, also known as 'fool's gold'; metallic lustre.

#### What is it used for?

Copper (Cu) in electrical wiring, plumbing, alloys, electronics and coins.





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# PENTLANDITE (Fe,Ni)<sub>9</sub>S<sub>8</sub>



Dynamic Earth Collection

Creative Photography by Steve Clapp

Sudbury, Ontario Canada

#### What does it look like?

Silvery to yellowish-bronze mass; crystals are rare; metallic lustre.

#### What is it used for?

Main source of nickel (Ni). The nickel in stainless steel, home appliances and in coins.





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## VANADINITE Pb5(VO4)3CI



Chabot Collection

Creative Photography by Steve Clapp

Mibladen, Morocco

### What does it look like?

Red six-sided (hexagonal) crystals; resinous lustre.

#### What is it used for?

Collecting and trading. The vanadium (V) as catalyst in the production of acids.





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## AZURITE CU3(CO3)2(OH)2



Vickery Collection

Creative Photography by Steve Clapp

Zacatecas, Mexico

### What does it look like?

Deep blue colour with a glassy lustre.

### What is it used for?

In jewellery and as paint pigment. The copper in electrical wiring, plumbing and many other uses.





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## CONICHALCITE CaCu(AsO<sub>4</sub>)(OH)



Chabot Collection

Creative Photography by Steve Clapp

Ojuela Mine, Mapimi, Durango Mexico

## What does it look like?

Bright green grape-like shapes; glassy lustre.

#### What is it used for?

For collecting and trading, as a gemstone.





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## MALACHITE Cu<sub>2</sub>CO<sub>3</sub>(OH)<sub>2</sub>



Chabot Collection

Creative Photography by Steve Clapp

Star mine, Katanga, Zaire

#### What does it look like?

Green; glassy to dull lustre.

### What is it used for?

Minor source of copper (Cu); gemstone, ornamental stone, carvings.





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## ARAGONITE CaCO<sub>3</sub>



Chabot Collection

Creative Photography by Steve Clapp

Tazouta Mine, Morocco

## What does it look like?

Orange-brown; glassy to resinous lustre.

#### What is it used for?

Fine crystals for collecting, trading and occasionally in jewellery.





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# CALCITE CaCO,



Vickery Collection

Creative Photography by Steve Clapp

Paul Frank Quarry, Indiana, USA

### What does it look like?

Golden-brown transparent crystals; silky lustre.

#### What is it used for?

In cement, concrete, paints, rubber, medicine, gardening, agriculture and many more.





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## ZINCITE (Zn, Mn)O



Chabot Collection

Creative Photography by Steve Clapp

Unknown Origin

#### What does it look like?

Deep red; diamond-like lustre.

### What is it used for?

Zincite for collecting and trading. The zinc (Zn) in pharmaceuticals to heal skin, hair and rheumatism.





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## HEMATITE (KIDNEY ORE)

Fe,O,



Vickery Collection

Creative Photography by Steve Clapp

Cumberland, England

### What does it look like?

Red-gray in kidney-like mass; metallic lustre.

### What is it used for?

Hematite is the most important source of iron (Fe); jet black hematite is popular in jewellery.





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## BARITE ROSE BASO,



Vickery Collection

Creative Photography by Steve Clapp

## Unknown Origin

## What does it look like?

"Rose-petals" are white and orange; glassy to pearly lustre.

#### What is it used for?

As "heavy mud" in petroleum industry. The barium (Ba) in chemical industry, paints, paper, rubber and glass.





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## ANHYDRITE CaSO,



Chabot Collection

Creative Photography by Steve Clapp

Chihuahua, Mexico

#### What does it look like?

Bluish white; pearly to glassy lustre.

#### What is it used for?

In cement, filler in paper, soil conditioner. The sulfur (S) is used for sulfuric acid.



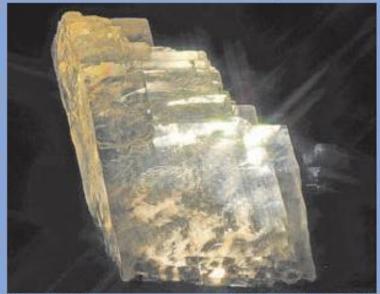


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# CALCITE (OPTICAL) CaCO,



Vickery Collection

Creative Photography by Steve Clapp

Faraday Mine, Bancroft, Ontario Canada

#### What does it look like?

Almost colourless and ultra pure calcite; glassy lustre.

#### What is it used for?

Shows the polarization of light; the Vikings' "Sun Stone".





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## APATITE Ca, (PO,), (OH, F, CI,)



Vickery Collection

Creative Photography by Steve Clapp

Yates Mine, Otter Lake, Québec Canada

#### What does it look like?

Green and green-brown; glassy lustre.

### What is it used for?

"Bone grafting" in medicine; jewellery. The phosphorous (P) is used for fertilizers.





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# FLUORITE CaF,



Vickery Collection

Creative Photography by Steve Clapp

Rosiclare, Illinois USA

### What does it look like?

Purple cubes; glassy lustre.

### What is it used for?

As flux in steel and aluminum smelting; in hydrofluoric acid (HF); in high quality lenses.





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## HALITE NaCI



Dynamic Earth Collection

Creative Photography by Steve Clapp

Windsor, Ontario Canada

### What does it look like?

Colourless to white; glassy lustre.

### What is it used for?

Table salt, food preservative, road salt and water softener.





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## PINK GROSSULAR

Ca<sub>3</sub>Al<sub>2</sub>(SiO<sub>4</sub>)<sub>3</sub>



Chabot Collection

Creative Photography by Steve Clapp

Unknown Origin

## What does it look like?

Pink; greasy to glassy lustre.

## What is it used for?

Rare gemstone, jewellery, collecting and trading.





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# PYRITE CUBE FeS,



Dynamic Earth Collection

Creative Photography by Steve Clapp

Minas Victoria, La Rioja, Spain

## What does it look like?

Brassy yellow, cubes almost 1 cubic centimetre; metallic lustre.

#### What is it used for?

Pyrite for ignition in early firearms in 16th and 17th century; today for collecting and trading.





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# MOLYBDENITE MoS<sub>2</sub>



Chabot Collection Creative Photography by Steve Clapp Acme Mine, Gatineau Co., Québec Canada

## What does it look like? Black with a metallic lustre.

### What is it used for?

The molybdenum (Mo) in alloys, aircraft parts, armour and high-temperature lubricants.





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## CHALCOPYRITE ON DOLOMITE CUFeS,



Vickery Collection

Creative Photography by Steve Clapp

## Unknown Origin

#### What does it look like?

Brass to golden yellow, also known as 'fool's gold'; metallic lustre.

#### What is it used for?

The copper (Cu) in plumbing pipes, electrical wire, coins, alloyed with tin it forms brass.





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## DOLOMITE, CALCITE & QUARTZ CaMg(CO3)2



Chabot Collection

Creative Photography by Steve Clapp

Greely, Ontario Canada

### What does it look like?

White, pink and tan; glassy to pearly lustre.

### What is it used for?

Dolomite as building stone in road construction; magnesia (MgO) in Portland cement and in medicine.





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# BORNITE Cu, FeS,



Dynamic Earth Collection
Zacatecas, Mexico

Creative Photography by Steve Clapp

#### What does it look like?

Tarnished with air to blue-purple-iridescent "peacock ore"; metallic lustre.

#### What is it used for?

The copper in electrical wiring, plumbing and many other uses.





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## **GRAPHITE** c



Dynamic Earth Collection Madagaskar

Creative Photography by Steve Clapp

What does it look like? Black with a metallic lustre.

### What is it used for?

Graphite in heat resistant vessels, as a solid lubricant and the 'lead' in pencils.





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#### CHALCOPYRITE IN CALCITE CuFeS,



Dynamic Earth Collection Unknown Origin

Creative Photography by Steve Clapp

### What does it look like?

Brass to golden yellow, also known as 'fool's gold'; metallic lustre.

#### What is it used for?

Copper (Cu) in electrical wiring, plumbing, alloys, electronics and coins.





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## SULFUR s



Chabot Collection Creative Photography by Steve Clapp
Napa Volcano, Southern Potosi, Bolivia

### What does it look like?

Bright yellow; resinous to greasy lustre.

#### What is it used for?

In rubbers, fungicides and pesticides, in wine making (sulfites), fertilizer and explosives.





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VESUVIANITE  $Ca_{10}(Mg, Fe)_2Ai_4(SiO_4)_5(Si_2O_7)_2(OH)_4$ 



Chabot Collection

Creative Photography by Steve Clapp

Jeffrey Mine, Asbestos, Québec Canada

### What does it look like?

Mostly green and purple crystals; glassy lustre.

#### What is it used for?

Collecting and trading; good crystals as gemstones and in jewellery.





# ULEXITE NaCaB<sub>5</sub>O<sub>6</sub>(OH)<sub>6</sub>.5(H<sub>2</sub>O)



Dynamic Earth Collection
Boron, California USA

Creative Photography by Steve Clapp

#### What does it look like?

Colourless 'fiber optic' needles; silky lustre.

#### What is it used for?

Ulexite as 'TV Rock'. Boron (B) in household products, fire retardants, fungi- and insecticides.





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## REALGAR AsS



Chabot Collection

Creative Photography by Steve Clapp

Getchell Mine, Nevada USA

## What does it look like?

Deep red to orange; resinous lustre.

### What is it used for?

Due to the toxicity of arsenic (As) most of its uses, for example in fireworks, have been stopped.





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## GALENA Pbs



Unknown Origin

Creative Photography by Steve Clapp

## What does it look like?

Steel grey, shiny, tarnishes to dull grey; metallic lustre.

#### What is it used for?

Main source of lead (Pb). Pb for lead acid batteries, pipes, solder and shot.





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# TALC Mg<sub>3</sub>Si<sub>4</sub>O<sub>10</sub>(OH)<sub>2</sub>



Vickery Collection

Creative Photography by Steve Clapp

Chester, Vermont USA

### What does it look like?

Apple green; pearly lustre.

#### What is it used for?

In paints, ceramics, rubber, insecticides, paper, talcum powder; as 'soapstone' for carvings.





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# WULFENITE PhMoO4



Vickery Collection

Creative Photography by Steve Clapp

Los Lamentos Mine, Mexico

## What does it look like?

Yellow to orange plate-like crystals; glassy lustre.

#### What is it used for?

Minor source of lead (Pb) and molybdenum (Mo); collecting and trading.





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## AMETHYST Sio,



Chabot Collection Creative Photography by Steve Clapp
Thunder Bay, Ontario Canada

### What does it look like?

Purple, because of iron inclusions in the crystal structure; glassy lustre.

## What is it used for?

Ornaments, jewellery, collecting and trading.





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# QUARTZ SiO,



Chabot Collection

Creative Photography by Steve Clapp

Mount Ida, Arizona USA

### What does it look like?

Colourless to whitish-tan; glassy lustre.

#### What is it used for?

Quartz in glass, optics, flux, abrasives, construction, ornaments and jewellery.



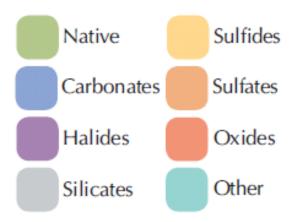


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### COLOR CODE / RARITY & HARDNESS



## Mineral Group Color Code

Each card background color corresponds with a different mineral group.

Rarity: The mineral is very common (1), common (2), rare (3) or very rare (4) on the Earth's surface.

Hardness: The mineral's hardness on the Mohs scale from 1 (softest - talc) to 10 (hardest - diamond).

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