

# MINERALS

IES ACCI  
DEPARTAMENTO BIOLOGÍA Y  
GEOLOGÍA  
1º ESO BILINGÜE

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ELEMENT

SULFUR  
S



**Color: yellow**

**Streak: white**

**Lustre: waxy**

**Hardness: 1,5 – 2,5 (soft)**

**Cleavage: No**

**Shape: irregular**

**Uses: sulfuric acid, fertilizers, sulfur compounds**

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**ELEMENT**

**GRAPHITE**  
**C**



**Color: black**

**Streak: black**

**Lustre: dull - metallic**

**Hardness: 1 – 2 (soft)**

**Cleavage: Yes, flat**

**Shape: irregular**

**Uses: pencil lead, oil, lubricant.**

**Others: it stains dark the hands**

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**SULFIDE**  
**S; Metal**

**CINNABAR**  
**S; Hg**



**Color: red (scarlet)**

**Streak: red (scarlet)**

**Lustre: waxy**

**Hardness: 2 – 2,5 (soft)**

**Cleavage: No**

**Shape: irregular**

**Uses: ore of mercury**

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**SULFIDE**  
**S; Metal**

**GALENA**  
**S; Pb**



**Color: gray**

**Streak: gray**

**Lustre: metallic**

**Hardness: 2,5 (soft)**

**Cleavage: cubic or irregular**

**Shape:geometric (cubes) or irregular**

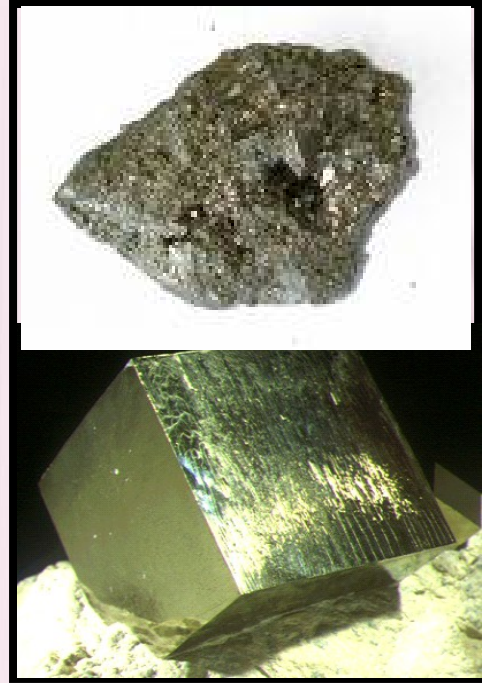
**Uses: ore of lead, to make batteries, to protect  
from X rays**

**Others: very heavy (hing density)**

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**SULFIDE**  
**S; Metal**

**PYRITE**  
**S; Fe**



**Color: golden greenish**

**Streak: greenish black to brownish black**

**Lustre: metallic**

**Hardness: 6 – 6,5 (medium – high)**

**Cleavage: cubic**

**Shape: geometric (cubes) or irregular**

**Uses: paper industry**

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**OXIDE**  
**O; Metal**

**GOETHITE**  
**O; Fe**



**Color: reddish to dark brown**

**Streak: brown**

**Lustre: waxy to dull**

**Hardness: 5 - 5,5 (medium)**

**Cleavage: No**

**Shape: irregular, like droplets**

**Uses: pigment, ore of iron**

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**OXIDE**  
**O; Metal**

**MAGNETITE**  
**O; Fe**



**Color: black**

**Streak: black**

**Lustre: metallic**

**Hardness: 5,5 -6,5 (medium)**

**Cleavage: No**

**Shape: irregular**

**Uses: ore of iron, to make steel, paints,**

**abrasive**

**Others: is magnetic**

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**HALIDE**  
Halogen; Alkali

**SYLVITE**  
Cl; K



**Color:** orange- redish

**Streak:** white

**Lustre:** glassy, waxy

**Hardness:** 2 (soft)

**Cleavage:** yes (cubic)

**Shape:** regular (cubic)

**Uses:** salt substitute, fertilizer

**Others:** it tastes bitter

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**HALIDE**  
Halogen; Alkali

**HALITE**  
Cl; Na



**Color: colorless**

**Streak: white**

**Lustre: glassy**

**Hardness: 2,5 (soft)**

**Cleavage: yes (cubic)**

**Shape: regular (cubic)**

**Uses: table salt**

**Others: it seems like ice, it tastes salted**

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**SULFATE**  
S; O

**GYPSUM**  
S; O; Ca



**Varieties:**

Alabaster: translucent  
Fibrous gypsum: white  
Red gypsum  
Dessert rose: sand  
colored



**Color:** usually colorless to white,  
but also yellow, red, brown

**Streak:** white

**Lustre:** glassy

**Hardness:** 2 (soft)

**Cleavage:** Yes

**Shape:** regular

**Uses:** wallboard, cement

**Others:** alabaster, a variety is used  
in ornamental.

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**CARBONATE**

**C; O**

**AZURITE**

**C; O; Cu**



**Color: dark blue**

**Streak: Pale blue**

**Lustre: not much, a little glassy**

**Hardness: 3,5-4 (soft - medium)**

**Cleavage: no**

**Shape: irregular**

**Uses: gemstones, ornamental**

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**CARBONATE**  
**C; O**



**MALACHITE**  
**C; O; Cu**



**Color: green**

**Streak: Pale green**

**Lustre: not much, a little glassy**

**Hardness: 3,5-4 (soft - medium)**

**Cleavage: no**

**Shape: irregular**

**Uses: gemstones, ornamental**

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**CARBONATE**

**C; O**

**ARAGONITE**

**C; O; Ca**



**Color: variable, but pale colors**

**Streak: White**

**Lustre: Glassy or dull**

**Hardness: 3,5 - 4 (medium)**

**Cleavage: no**

**Shape: regular (hex shape)**

**Uses:**

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**CARBONATE**

**C; O**

**CALCITE**

**C; O; Ca**



**Color: usually white, but also in other colors**

**Streak: White**

**Lustre: Glassy**

**Hardness: 3 (soft)**

**Cleavage: no**

**Shape: regular or irregular**

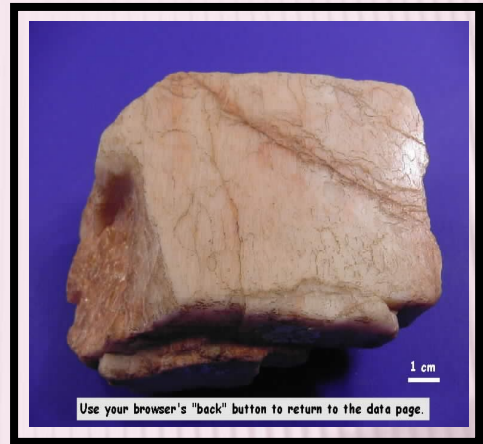
**Uses: monuments, paints, buildings**

**Others: is the main component in limestones and marble.**

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**SILICATE**  
**Si; O**

**ORTHOCLASE**



**Color: White, or other pale colors**

**Streak: White**

**Lustre: Waxy**

**Hardness: 6 – 6,5 (medium)**

**Cleavage: no**

**Shape: regular**

**Uses: gemstones, ceramic, electric**

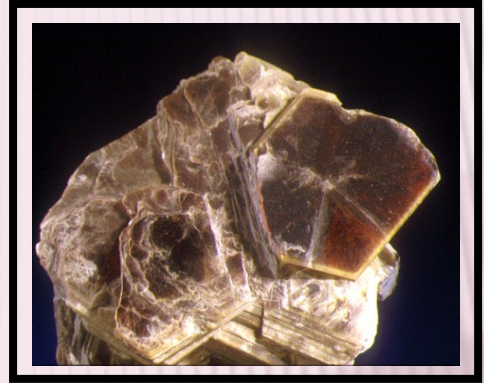
**insulating**

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**SILICATE**  
**Si; O**

**MUSCOVITE**



**Color: White, silver, green, but  
pale.**

**Streak: White**

**Lustre: Glassy**

**Hardness: 2 – 2,5 (soft)**

**Cleavage: Yes, in sheets**

**Shape: regular (flat)**

**Uses: insulating in electricity, heat**

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**SILICATE**  
**Si; O**

**TALC**



**Color: variable, but light.**

**Streak: white to very pale green**

**Lustre: waxy**

**Hardness: 1 (the softest)**

**Cleavage: Yes**

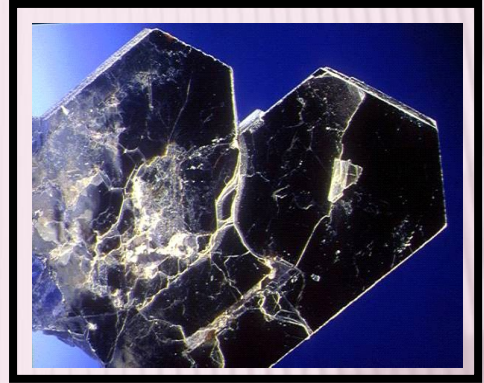
**Shape: irregular**

**Uses: paint, ceramics, rubber, roofing, paper**

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**SILICATE**  
**Si; O**

**BIOTTE**



**Color: Black**

**Streak: White to gray**

**Lustre: Glassy**

**Hardness: 2,5 - 3 (soft)**

**Cleavage: Yes, in sheets**

**Shape: regular (flat)**

**Uses: insulating in electricity, heat**

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**SILICATE**  
**Si; O**



**OLVINE**



**Color: Olive green**

**Streak: Colorless**

**Lustre: Glassy**

**Hardness: 6,5 – 7 (medium-high)**

**Cleavage: No**

**Shape: Regular (pyramid)**

**Uses: Jewellery**

**Others: in volcanic rocks**

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**SILICATE**  
**Si; O**

**QUARTZ**



**Varieties**

**Rock Crystal** - Translucent

**Smoky** - Brown to black

**Amethyst** - Purple

**Carnelian** - Red

**Rose Quartz** - pink

**Milky quartz** - white

**Color: It depends on the variety**

**Streak: Colorless**

**Lustre: Glassy**

**Hardness: 7 (high)**

**Cleavage: No**

**Shape: Regular (pyramid ) or irregular**

**Uses: Glass, watches, electricity, decoration**

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# BIBLIOGRAFÍA



GUÍA INTERACTIVA DE MINERALES Y ROCAS  
de la ETSI de Montes - UPM  
versión 0.2

- fichas
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**Minerals arranged by the Nickel-Strunz (Ver10) Classification**

Nickel-Strunz classification courtesy of James A. Ferraiolo. Jim's scholarship on minerals began in 1982 when he published *A Systematic Classification of Nonsilicate Minerals* that used the Nickel-Strunz classification. For additional information on the Nickel-Strunz classification, please visit [http://www.crystalarium.com](#)

# Oligisto, Bauxita