

# Sc 21 44,956 1,2 [Ar]

[Ar] 3d<sup>1</sup>4s<sup>2</sup>

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### **Solid**

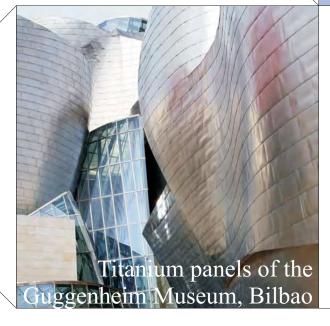
Silvery-white metal.

Uses: stadium lights, large screen TV's and aluminiumscandium alloys (bicycle frames).



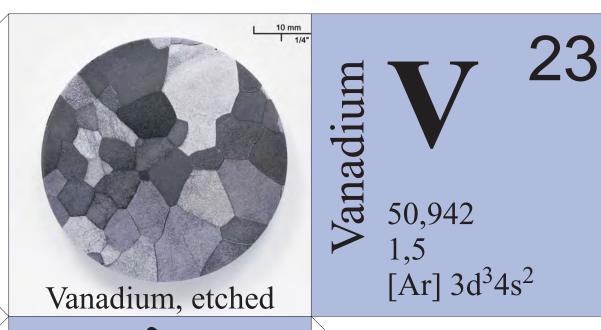
### E Ti 22

47,88 1,3 [Ar] 3d<sup>2</sup>4s<sup>2</sup> Transition ( )



### **Solid**

Strong, corrosion-resistant metal.
Uses: surgical implants, jewellery; aircraft, spacecraft, armor plating, naval ships and missiles.



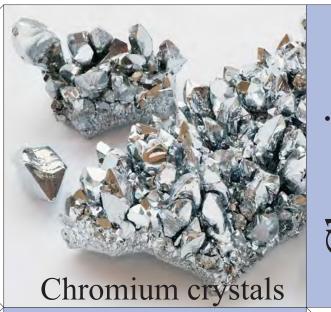
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### **Solid**

Soft, silver-grey, ductile metal.

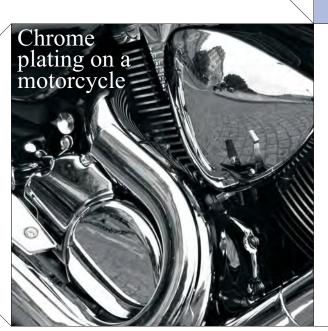
Uses: steel additive for axles, bicycle frames, crankshafts, tools, gears, etc.



### E Cr<sup>24</sup>

51,996 1,6 [Ar] 3d<sup>5</sup>4s<sup>1</sup>

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### **Solid**

Soft, steely-grey, hard metal.

Uses: stainless steel, chrome-plating; colours rubies red, emeralds green.



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 $[Ar] 3d^54s^2$ 

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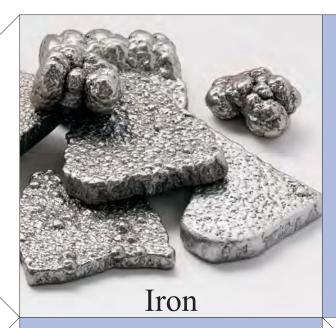
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### **Solid**

Silvery-grey metal, looks like iron. Uses: steel additive, added to petrol to boost octane rating, pigment to colour ceramics and glass.



## E Re

55,845 1,6 [Ar] 3d<sup>6</sup>4s<sup>2</sup> Transition Netal

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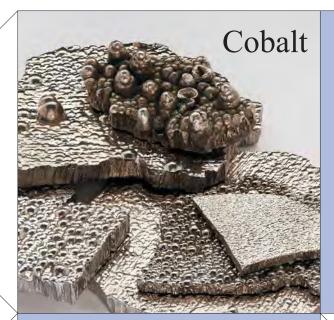
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Prussian blue

Dark blue pigment: formula Fe<sub>7</sub>(CN)<sub>18</sub>•14H<sub>2</sub>O

### **Solid**

Greyish metal.
It's most common element on Earth.
Uses: machinery, tools, automobiles, ships, colours blood red, blue pigment.



Copalt Copalt

58,993 1,7 [Ar] 3d<sup>7</sup>4s<sup>2</sup> Transition Netal

Oball

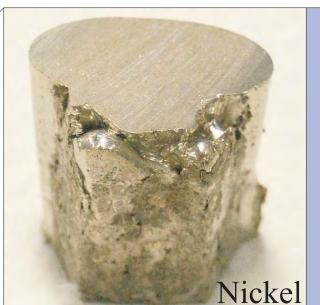
German



### **Solid**

Hard lustrous grey metal.

Uses: alloys, lithium ion batteries, blue coloured glass, pigments for paintings.



# Ni 28

58,693 1,8 [Ar] 3d<sup>8</sup>4s<sup>2</sup> Transition Letal

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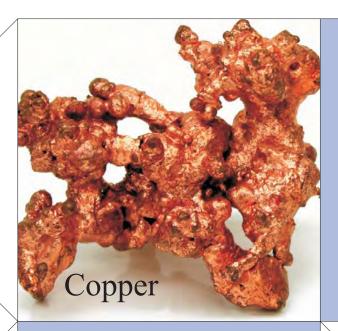


Jet engine turbine blade from nickel superalloy

### **Solid**

Silver metal with a gold tinge.

Uses: stainless steel, magnets, rechargeable batteries, coins, electric guitar strings



# Cubel Cubel

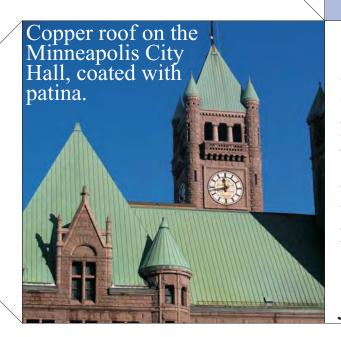
63,546 1,8 [Ar] 3d<sup>10</sup>4s<sup>1</sup> Transition Netal

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### **Solid**

Red-orange, soft and malleable metal.
Uses: conductor of heat and electricity, roofing material, cooking utensils, jewellery, statues.



# Zn<sup>30</sup>

65,41 1,7 [Ar] 3d<sup>10</sup>4s<sup>2</sup> Transition ( )

Line German. Tinken.



### **Solid**

Bluish-white, diamagnetic metal.

Uses: galvanizing, diecasting, brass & bronze, batteries, dietary supplement.



### **Y** 39

88,906 1,1 [Kr] 4d<sup>1</sup>5s<sup>2</sup> Transition (

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### **Solid**

Soft, silvery-white, crystalline.

Uses: fibre optics, energy-efficient light bulbs, treatment of cancers, TV's.



## Zr<sup>40</sup>

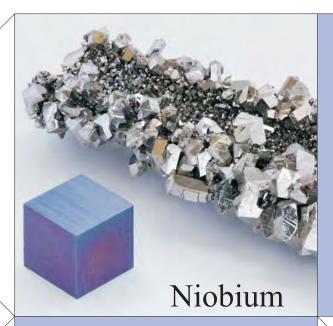
91,225 1,2 [Kr] 4d<sup>2</sup>5s<sup>2</sup> Transition ( )

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### **Solid**

Soft, silvery-white, crystalline.
Uses: surgical instruments, heat resistant parts, made into diamond-like gemstones.



## Nb<sup>41</sup>

92,906 1,2 [Kr] 4d<sup>4</sup>5s<sup>1</sup> Transition Letal

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The black rocket nozzle of Apollo 15 is made from niobium-titanium alloy.

### **Solid**

Grey, metallic; blueish oxidised. Used in mobile telephones, superconducting magnets in MRI's, commemorative coins.



# M 95,94 1,3 [Kr] 4d<sup>5</sup>5s<sup>1</sup>

Transition X

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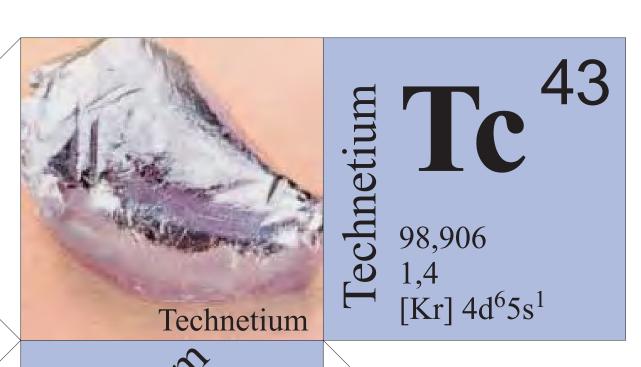


MoSi<sub>2</sub> heating element

### **Solid**

Silvery white metal, melts at 2,623 °C.

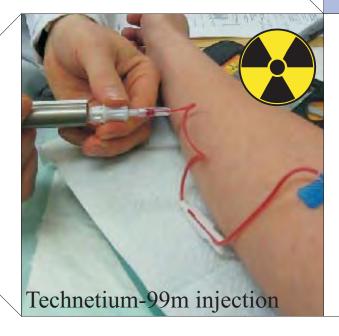
Used in filaments in heaters, in steel for airplane and auto engines.



[Kr] 4d<sup>6</sup>5s<sup>1</sup>

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### **Solid**

Silvery grey radioactive metal. Used as radioactive tracer in medical tests, equipment calibration (beta emitter).