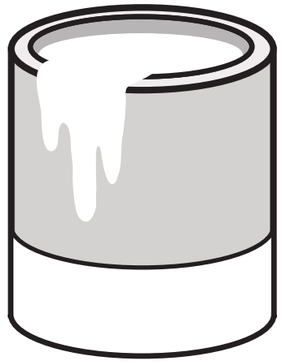
INORGANIC COMPOUNDS AS PIGMENTS IN PAINTS

A NUMBER OF INORGANIC COMPOUNDS ARE USED AS PIGMENTS IN PAINTS. MANY OF THESE COMPOUNDS ARE COLOURED DUE TO THE ABSORPTION OF LIGHT ENERGY BY ELECTRONS IN d ORBITAL SUBSHELLS, MEANING WE SEE COLOURS DEPENDING ON WHICH WAVELENGTHS OF LIGHT ARE NOT ABSORBED BY THE COMPOUND.

CARBON BLACK
Carbon
C



TITANIUM WHITE
Titanium dioxide, TiO_2

ANTIMONY WHITE
Antimony trioxide, Sb_2O_3

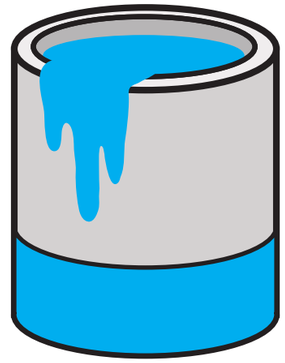
ZINC WHITE
Zinc Oxide, ZnO

COBALT VIOLET
Cobalt (II) phosphate
$Co_3(PO_4)_2$

ULTRAMARINE BLUE
$Na_6Al_4Si_6S_4O_{20}$

PRUSSIAN BLUE
Ferric hexocyanoferrate, $Fe_7(CN)_{18}$

COBALT BLUE
Cobalt (II) aluminate, $CoAl_2O_4$



CERULEAN BLUE
Cobalt (II) stannate
Co_2SnO_4

CHROME GREEN
Chromium (III) oxide
Cr_2O_3

VIRIDIAN GREEN
Hydrated chromium (III) oxide
$Cr_2O(OH)_4$

CADMIUM YELLOW
Cadmium sulfide, CdS

CHROME YELLOW
Lead chromate, $PbCrO_4$

ZINC YELLOW
Zinc chromate, $ZnCrO_4$

CADMIUM ORANGE
Cadmium sulfoselenide
Cd_2SSe

CADMIUM RED
Cadmium selenide, CdSe

RED OCHRE
Iron (III) oxide, Fe_2O_3