

Synthetic Iron Oxide Pigment (SIOP)

DESCRIPTION

DCW produces Red, Yellow and Orange Pigments. These are pure iron oxide pigments without any blends*.

DCW sells its SIOP under the brand DIROX®

CHEMICAL NAME & FORMULA

Synthetic Iron Oxide Pigment Fe_2O_3

CHEMICAL FORMATION

Fine Particles

INPUT

Ferrous Chloride, Iron Scrap, Ammonia

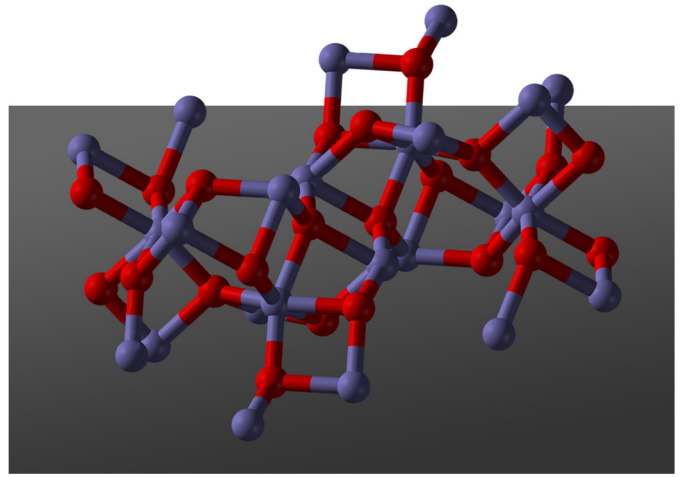
OUTPUT

Synthetic Iron Oxide Pigment

APPLICATIONS

Our SIOP is suitable for construction, paints & coatings, paper and plastic master batches industries.

We also offer pigments with low lead content suitable for food colour applications.



RED OXIDES

DIROX® Red 110
DIROX® Red 129
DIROX® Red 120
DIROX® Red 130
DIROX® Red 130A
DIROX® Red 130E
DIROX® Red 445
DIROX® Red 136

YELLOW OXIDES

DIROX® Yellow 920
DIROX® Yellow 313

ORANGE OXIDE

DIROX® Oxide 960

Product Properties

Description	Synthetic Iron Oxide Pigment
Delivery Form	Red & Yellow coloured dry powder
Corrosive	Non corrosive
Flammability	Non inflammable
Solubility	Insoluble in water
Specific Gravity g/cm ³	Red approx. 5.0 Yellow approx. 4.0

Product Specifications

Characteristics	Yellow Iron Oxide Pigment	Red Iron Oxide Pigment
Chemical Class	FeOOH	Fe ₂ O ₃
Color Index	Pigment Yellow 42	Pigment Red 101 (77491)
Tinting Strength, %	95 - 105 %	95 - 105 %
Fe₂O₃ Content, %	86	> 96
Moisture Content, %	< 1.0	< 1.0
Oil absorption, g /100g	30 - 39	15 - 20
Tamped Density, kg/lt	0.55	1.1
Sieve retention, 45 µm	< 0.3	< 0.3
Water soluble salts, %	< 0.30	< 0.30
pH of 10 % aqueous extract	4 - 8	5 - 8
Particle Shape	Needle	Spherical

Related Information

PACKAGING & HANDLING

Red material is packed in 25 kg poly/paper bags & 1MT super sacks. Handling is to be done carefully to avoid generation of dust.

Yellow Material is packed in 20/25 kg poly/paper bags & 500 kg super sacks. Handling is to be done carefully to avoid generation of dust

TRANSPORT CLASSIFICATION

Red: CAS No. 1309-37-1
 Yellow: CAS No. 51274-00-1



Product Safety Data

Name of Product	Synthetic Red Iron oxide / Synthetic Yellow Iron oxide
Composition / Components	Red Pigment with 96-98% as Fe_2O_3 Yellow Pigment with 86-87% as Fe_2O_3
Hazard Identification	Non Hazardous
First Aid Measures	Eye: Hold eyes open and rinse continuously with gentle stream of clean running water. Seek medical attention if irritation or soreness persists. Skin: No specific aid. Remove contaminated clothing and wash off thoroughly with soap water.
Measures For Fire Fighting	Non Inflammable
First Aid Measures In Case Of Unintentional Release	Vaccum or use wet clean up techniques and place material in closed container. Avoid generating dust. Wash thoroughly after handling and before eating and drinking.
Handling & Storage	To be handled carefully avoiding spillages and creation of dust. Keep away from food products. Keep container closed when not in use. Use with adequate ventilation.
Exposure Limit & Staff Protection Equipment	Use goggles or glasses. Use gloves to avoid dusting.
Physical & Chemical Properties	Red/Yellow coloured dry powder without specific odour. Insoluble in water.
Stability & Reactivity	Material stable without reactivity.
Information Of Toxicology	Non-Toxic
Information About Waste Disposal	Not classified as hazardous waste. Hence no specific requirements for disposal. However it must be in accordance with local regulations.
Information About Transport	No specific requirements. Transportable as general commodity in bags/containers.
Statutory Regulatory Information	Shipping Name: Synthetic Red / Synthetic Yellow iron oxide
Other Information	This product is non hazardous good and therefore not covered by international regulations on the transport of dangerous goods.