ZHEJIANG GREEFIELD INDUSTRY CO,.LTD.

Product Specifications

Food, Tobacco Grade Synthetic Iron Oxide

Edition : 2010-06-28

CEE classification : E 172

Three iron oxides class exist :

Yellow iron oxide, (CI Pigment Yellow 42 and 43)
CAS No.: 51274-00-1 , EINECS No.: 257-098-5

Red iron oxide , (CI Pigment Red 101 and 102)
CAS No.: 1309-37-1 , EINECS No.: 215-168-2

Black iron oxide , (CI Pigment Black 11)
CAS No.: 1317-61-9 , EINECS No.: 215-277-5

Class : Inorganic pigments

Chemical denominations :
Yellow iron oxide : iron hydroxide oxide yellow
Red iron oxide : diiron trioxide
Black iron oxide : iron oxide black

Chemical formula :
Yellow iron oxide : $FeO(OH).xH_2O$
Red iron oxide : Fe_2O_3
Black iron oxide : $FeO.Fe_2O_3$

Molecular mass :
Yellow iron oxide : 88.85
Red iron oxide : 159.70
Black iron oxide : 231.55

Purity criterions :
Composition : Yellow : not less than 60% ;
Red and Black : not less than 68% of total iron,expressed in iron;
Water soluble substances : not more than 1.0%;
Heavy metals :

Arsenic :	5 mg/kg Max
Barium :	50 mg/kg Max
Cadmium :	5 mg/kg Max
Chromium :	50 mg/kg Max
Copper :	50 mg/kg Max
Plumbum :	20 mg/kg Max
Mercury :	1 mg/kg Max
Nickel :	100 mg/kg Max
Zinc :	100 mg/kg Max

Technologic function : Food, feed , cosmetics, cigarettes, tobacco roll of paper dye etc.

Daily dose allowed : 0 ~ 0.5 mg/kg of bodily weight.

Notice : The products need accord with the requirements of EC food legislation(EC-Directive 95/45/EEC).

Also FDA regulations (title 21 section 73), which permits it to be used as an additive for drugs, pharmaceuticals and cosmetics etc.

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