PENTACOLOR

Natural iron oxides

Technical Data Sheet October 2015

DESCRIPTION

PENTACOLOR is composed of oxides and natural salts of micronized α-Fe_2O_3 and $FeO \cdot Fe_2O_3$ iron, with high pigmenting efficiency for industrial application.

FEATURES

- High content of iron oxide (III) or (II).
- Homogeneous grain dimension and distribution.
- Particles of pigment with lamellar form.
- Extremely low content in soluble Salts.
- High anti-corrosive power and resistance to the alkalis.
- Excellent stability to UV rays.
- Excellent colouring and covering power.
- Resistance to high temperatures.

USE

The principal applications of **PENTACOLOR** include: industrial paints, ceramic, cementitious mortars and concrete, bricks and tiles, mortars and tars, glass, iron and steel industry, foundry products.

TECHNICAL DATA

	Data	Method
State:	Powder	Visual
Density:	0.65 ± 0.25 g/cm^3	IST. 10.07
Specific weight	4.1 ± 0.8 g/cm^3	ISO 787-11
Water soluble salts (Cl- +So_4^{2-})	< 0.3 %	ISO 787-13
Potential of hydrogen (pH)	7.0 ± 2	IST. 10.05
Bulk density	Min. 99.9% < 0.045	IST. 10.09
Humidity	0.2 ± 0.15%	IST. 10.04
Absorption in oil	31 ± 10 g oil/100g	ISO 787-5
Parameter ΔE*	< 1.5	ISO 787-1
Relative colouring power	100 ± 5%	ISO 787-16
Specific surface	15 ± 0.5 m^2/g	

BULK DENSITY
(With laser diffraction)

Dimension	Cumulative passant %
<100 µm	100%
<80 µm	>99.9%
<60 µm	>98.5%
<40 µm	>98.1%
<20 µm	>91.0%
<10 µm	>78.0%
<5 µm	>65.0%
<2 µm	>51.0%
<1 µm	>40.0%

Average dimension of particles	1.25 ± 015 µm
Maximum dimension of particles	10 ± 1 µm

AVAILABLE COLOURS

RED	**R 01 – R 02 – R 03**
YELLOW	**Y 01 – Y 02 – Y 03**
BLACK	**BK 01 – BK 02 – BK 03**
ORANGE	**M 01 – M 02 – M 96**
BROWN	**BR 01 – BR 02 – BR 61 – BR 66**

PACKAGING 25 kg paper bags

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