



QUALITY CERTIFICATE
MICRONOX® BK02

Date of dispatch: 23/06/2020
Batch: CI02
Quantity: 2.1 TONS
Ref: PVE/20/0258
Order: ORDER 10

PRODUCT DESCRIPTION

Type Black pigment
Delivery form Powder
Chemical description Iron oxide (Fe₃O₄)

TECHNICAL SPECIFICATIONS

Property	Value	Unit	Max	Min	Test method
Fe ₃ O ₄ content	91.1	%	-	90	ISO 1248 Método A
Humidity	0.21	%	1.0	-	ISO 787-2
Residue on sieve of 45 µm	≤0.01	%	0.01	-	ISO 787-7
Average particle size	1.97	µm	2.2	1.8	ISO 13320-1
Maximum particle size	25.18	µm	28.25	-	ISO 13320-1
Specific surface area	8.4	m ² /g	8.5	7.0	ISO 13320-1
Oil absorption	22	goil/100g	24	20	ISO 13320-1
Water soluble salts (Cl ⁻ + SO ₄ ²⁻)	0.1	%	0.3	-	ISO 787-13
pH of aqueous suspension	6.8	-	8	6	ISO 787-9
Specific gravity	5.0	g/cm ³	5.1	4.9	ISO 787-10
Bulk density	1.0	g/cm ³	1.1	0.9	ISO 787-11
Relative tinting strength	99	%	105	95	ISO 787-16
ΔE* CIElab parameter	0.71	-	1.5	-	ISO 787-1

EC DECLARATION OF CONFORMITY UNE-EN 12878:2007

Certificate registration No.: 1239/CPD/0807001

Pigment for a concrete, mortar and grout.

Pigment for the colouring of building materials based on cement and/or lime for building materials belonging to category B.

Properties	Tests according to norms	Results
Setting time-initial	EN 196-3	165min
Compressive strength (28 days)	EN 196-1	50.2 N/mm ²
Soluble chlorides	ISO 787-13	0.03%
Total chlorine	ISO 1158	<0.1%
Loss on ignition	EN 196-2	≤1.0%
Water soluble substances	ISO 787-3	0.5%
Heat resistance	EN 12878	150 °C
Weathering resistance	EN 12878	Excellent
Alkaline stability	EN 196-1	Excellent
Lightfastness	ISO 12040	BWS = 8 (excellent)

