



QUALITY CERTIFICATE
MICRONOX® BK-01

Date of dispatch: 10/06/2020
Batch: SE02
Quantity: 7 TONS
Ref: PVE/20/0244
Order: ORDER 6

PRODUCT DESCRIPTION

Type Black pigment
Delivery form Powder
Chemical description Iron oxide (Fe_3O_4)

TECHNICAL SPECIFICATIONS

Property	Value	Unit	Max	Min	Test method
Fe ₃ O ₄ content	98.3	%	-	96	ISO 1248 Método A
Humidity	0.31	%	1.0	-	ISO 787-2
Residue on sieve of 45 µm	≤0.01	%	0.1	-	ISO 787-7
Average particle size	1.28	µm	1.65	1.25	ISO 13320-1
Maximum particle size	9.06	µm	≤ 10.00	-	ISO 13320-1
Oil absorption	16	goil/100g	18	14	ISO 13320-1
Water soluble salts (Cl ⁻ + SO ₄ ²⁻)	≤0.01	%	0.1	-	ISO 787-13
pH of aqueous suspension	7.5	-	9	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	0.28	-	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	138 min
Compressive strength (28 days)	EN 196-1	50.3 N/mm ²
Soluble chlorides	ISO 787-13	≤0.01 %
Total chlorine	ISO 1158	<0.1 %
Loss on ignition	EN 196-2	≤1.0 %
Water soluble substances	ISO 787-3	0.1 %
Heat resistance	EN 12878	150 °C
Weathering resistance	EN 12878	Excellent
Alkaline stability	EN 196-1	Excellent
Lightfastness	ISO 12040	BWS = 8 (excellent)

