



QUALITY CERTIFICATE
MICRONOX® R04

Date of dispatch: 23/06/2020
Batch: NU90
Quantity: 1.05 TONS
Ref: PVE/20/0258
Order: ORDER 10

PRODUCT DESCRIPTION

Type Red pigment
Delivery form Powder
Chemical description Iron oxide α -Fe₂O₃

TECHNICAL SPECIFICATIONS

Property	Value	Unit	Max	Min	Test method
Fe ₂ O ₃ content	93.3	%		92	ISO 1248 Method A
Humidity	0.36	%	1.0	-	ISO 787-2
Residue on sieve of 45 µm	≤0.01	%	<0.01	-	ISO 787-7
Average particle size	0.66	µm	0.75	0.55	ISO 13320-1
Maximum particle size	10.00	µm	10.00	7.96	ISO 13320-1
Specific surface area	25.7	m ² /g	30	22	ISO 13320-1
Water soluble salts (Cl ⁻ + SO ₄ ²⁻)	0.07	%	0.1	-	ISO 787-13
pH of aqueous suspension	7.1	-	9	5	ISO 787-9
Specific gravity	4.6	g/cm ³	4.7	4.5	ISO 787-10
Bulk density	0.9	g/cm ³	1.0	0.8	ISO 787-11
Oil absorption	22	g/100 g	24	22	ISO 787-5
Relative tinting strength	99	%	105	95	ISO 787-16
ΔE* CIElab parameter	0.49	-	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	177 min
Compressive strength (28 days)	EN 196-1	53.3 N/mm ²
Soluble chlorides	ISO 787-13	<0.01%
Total chlorine	ISO 1158	<0.1%
Loss on ignition	EN 196-2	3.2%
Water soluble substances	ISO 787-3	0.07%
Heat resistance	EN 12878	500° C
Weathering resistance	EN 12878	Excellent
Alkaline stability	EN 196-1	Excellent
Lightfastness	ISO 12040	BWS = 8 (excellent)

