



01239

PRODUCTOS MINERALES PARA LA INDUSTRIA, S.A. (PROMINDSA)

Registered address: Plataforma Logística Zaragoza (PLA-ZA)
C/Messina, 5. 50197-ZARAGOZA (Spain)

11

290411-01

EN 12878:2005

MICRONOX®R01

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category B
Composition of the pigment:	$\geq 76\% \text{ Fe}_2\text{O}_3$
Water soluble substances:	Category B
Soluble chloride:	Category B
Total chlorine:	Category B
Loss on ignition:	$\leq 8.0 \text{ wt } \%$
Dangerous substances: Quartz (<5 wt. %, CAS N° 14808-60-7): harmful by repeated inhalation	



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290411-02

EN 12878:2005

MICRONOX®R02

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category B
Composition of the pigment:	$\geq 76 \% \text{Fe}_2\text{O}_3$
Water soluble substances:	Category B
Soluble chloride:	Category B
Total chlorine:	Category B
Loss on ignition:	$\leq 8.0 \text{ wt } \%$
Dangerous substances: Quartz (<5 wt. %, CAS N° 14808-60-7): harmful by repeated inhalation	



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191013-01

EN 12878:2005

MICRONOX®R03

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category B
Composition of the pigment:	87 (±1.5) % Fe ₂ O ₃
Water soluble substances:	Category B
Soluble chloride:	Category B
Total chlorine:	Category B
Loss on ignition:	≤ 6.0 wt %
Dangerous substances: Quartz (<3 wt. %, CAS N° 14808-60-7): harmful by repeated inhalation	



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13

191013-02

EN 12878:2005

MICRONOX®R04

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category B
Composition of the pigment:	92 (±1.5) % Fe ₂ O ₃
Water soluble substances:	Category B
Soluble chloride:	Category B
Total chlorine:	Category B
Loss on ignition:	≤ 4.0 wt %
Dangerous substances: Quartz (<2 wt. %. CAS N° 14808-60-7): harmful by repeated inhalation	



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13

191013-03

EN 12878:2005

MICRONOX®R05

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category B
Composition of the pigment:	83 (±1.5) % Fe ₂ O ₃
Water soluble substances:	Category B
Soluble chloride:	Category B
Total chlorine:	Category B
Loss on ignition:	≤ 8.0 wt %
Dangerous substances: Quartz (<4 wt. %, CAS N° 14808-60-7): harmful by repeated inhalation	



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151021-01

EN 12878:2005

MICRONOX®R13

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category B
Composition of the pigment:	> 95% % Fe ₂ O ₃
Water soluble substances:	Category B
Soluble chloride:	Category B
Total chlorine:	Category B
Loss on ignition:	≤ 8.0 wt %
Dangerous substances: NDP	



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150526-01

EN 12878:2005

MICRONOX®BK01S

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category B
Composition of the pigment:	>95 % Fe ₃ O ₄
Water soluble substances:	Category B
Soluble chloride:	Category B
Total chlorine:	Category B
Loss on ignition:	<1.0 wt %
Dangerous substances:	NPD



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13

191013-11

EN 12878:2005

MICRONOX®BK02

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category A
Composition of the pigment:	$\geq 90\% \text{ Fe}_3\text{O}_4$
Water soluble substances:	Category A
Soluble chloride:	Category A
Total chlorine:	Category A
Loss on ignition:	$\leq 6.0 \text{ wt } \%$
Dangerous substances:	NPD



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13

191013-12

EN 12878:2005

MICRONOX-BK03

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category A
Composition of the pigment:	> 88 % Fe ₃ O ₄
Water soluble substances:	Category A
Soluble chloride:	Category A
Total chlorine:	Category A
Loss on ignition:	<5 % wt %
Dangerous substances:	NDP



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191013-13

EN 12878:2005

MICRONOX®BR01

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category B
Composition of the pigment:	85 (±1.5) % $\text{Fe}_2\text{O}_3 + \text{Fe}_3\text{O}_4$
Water soluble substances:	Category B
Soluble chloride:	Category B
Total chlorine:	Category B
Loss on ignition:	≤ 6.0 wt %
Dangerous substances: Quartz (< 3 wt. %, CAS N° 14808-60-7): harmful by repeated inhalation	



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13

191013-14

EN 12878:2005

MICRONOX®BR02

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category B
Composition of the pigment:	88.5 (±1.5) % $\text{Fe}_2\text{O}_3 + \text{Fe}_3\text{O}_4$
Water soluble substances:	Category B
Soluble chloride:	Category B
Total chlorine:	Category B
Loss on ignition:	≤ 5.0 wt %
Dangerous substances: Quartz (< 3 wt. %, CAS N° 14808-60-7): harmful by repeated inhalation	



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030423-01

EN 12878:2005

MICRONOX®BR16

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category B
Composition of the pigment:	66±5 % FeOOH
Water soluble substances:	Category B
Soluble chloride:	Category B
Total chlorine:	Category B
Loss on ignition:	≤ 10.0 wt %
Dangerous substances: Quartz (≤ 10%)-CAS 14808-60-7: harmful by repeated inhalation	



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271015-01

EN 12878:2005

MICRONOX®MARIGOLD 01

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category B
Composition of the pigment:	89.5 (±1.5) % Fe ₂ O ₃
Water soluble substances:	Category B
Soluble chloride:	Category B
Total chlorine:	Category B
Loss on ignition:	≤ 10.0% wt %
Dangerous substances:	NPD



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13

191013-09

EN 12878:2005

MICRONOX®MARIGOLD-02

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category A
Composition of the pigment:	79 (±1.5) % Fe ₂ O ₃
Water soluble substances:	Category A
Soluble chloride:	Category A
Total chlorine:	Category A
Loss on ignition:	≤ 12.0 wt %
Dangerous substances: Quartz (< 3 wt. %, CAS N° 14808-60-7): harmful by repeated inhalation	



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13

191013-06

EN 12878:2005

MICRONOX®Y01

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category A
Composition of the pigment:	$\geq 86 \% \text{Fe}_2\text{O}_3$
Water soluble substances:	Category A
Soluble chloride:	Category A
Total chlorine:	Category A
Loss on ignition:	$\leq 13.0 \text{ wt } \%$
Dangerous substances:	NPD



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13

191013-07

EN 12878:2005

MICRONOX-Y02

Pigment intended to be used in concrete, mortar and grout applications

Setting time (5 wt. % pigment loading):	Pass
Compressive strength (5 wt. % pigment loading):	Category B
Composition of the pigment:	>84 % FeOOH
Water soluble substances:	Category B
Soluble chloride:	Category B
Total chlorine:	Category B
Loss on ignition:	<14 wt %
Dangerous substances:	NDP