

Technical Data Sheet


N-Bio B10

Nalón Minerals SL
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N-Bio B10 is an oxide blend with a high content of iron hydroxide. It is recommended for the use in biogas/biomethane plants for capturing and reducing hydrogen sulphide. With its expertise, Nalón Minerals prepares the surface of the particles for highest efficiency and improved productivity of the biogas process. The product has an average Fe content of 50%.

Description	
Appearance	Brown powder
Formula	α -FeOOH
Delivery form	Powder
CAS No.	20344-49-4 and 1317-60-8

Predominant particle shape	Acicular
Predominant particle size (μm)	10.00 μm (± 0.20)

Technical Specifications

Mineralogical analysis	
Oxides	% Weight
Iron Hydroxide (FeOOH range)	58 - 63
Iron Oxide (Fe ₂ O ₃ -FeO range)	7 - 13
Micaceous minerals (Kna)(Al,Mg,Fe) ₂	6 - 7
[(si,Al) ₄ O ₁₀](OH) ₂	
Quartz (α -SiO ₂)	7 - 8
Amorphe phase	11 - 13

Chemical analysis	
Oxides	% Weight
FeOOH+Fe ₂ O ₃	65- 71
SiO ₂	9 - 10
Al ₂ O ₃	4 - 6
MnO ₂	3 - 5
MgO	1.5
K ₂ O	0.5 - 1.5
CaO	0.1 - 0.3
Na ₂ O	< 0.05
Cr ₂ O ₃	< 0.005

Heavy metals	
Element	mg/kg
Ag	≤ 0.1
As	< 80
Au	< 0.02
Bi	< 0.5
Cd	< 1.5
Cr (CrVI)	< 2
Co	40 (± 15)
Cu	25 (± 15)
Ga	≤ 15
Hg	≤ 1
Mo	≤ 3

Heavy metals	
Element	mg/Kg
Nb	< 5
Ni	< 200
Pb	< 100
Sb	≤ 2
Se	< 5
Sn	≤ 3
Ta	≤ 0.5
Tl	≤ 2
V	65 (± 40)
W	≤ 5
Zn	55 (± 20)

Packaging

20kg paper bags (customized format if required)
 1T Big-bag (customized format if required)
 Silo truck

Warranty storage period

12 months from manufacture (batch) if stored
 in original packaging in a dry place at
 temperatures below 50°C