

Certificate

Akdolit[®] Hydro-Anthrasit N

According to the DIN EN 12909:2012 "Products used for treatment of water intended for human consumption - Anthracite"

1. Physical properties of the Akdolit[®] product:

Parameter	Average Result kg/m ³	Content kg/m ³
Absolute density	approx. 1,5	1,35 – 1,60
Bulk density	approx. 720	650 – 800

Parameter	Average Result kg/m ³	Limit %
Undersize and oversize mass (each), for use in multi media filter	approx. 3	5
Undersize and oversize mass (each), for use in single media filter	approx. 7	10

2. Composition of the Akdolit[®] product:

Parameter	Result	Content %
Carbon (water and ash free basis)	91	> 90
Ash	3,7	< 7
Volatile matter	5,5	< 10

Physical properties (to provide information)

Parameter	Value
Hardness by Mohs [Mohs]	about 4
Grinding work by Hardgrove [°H]	about 38

Lhoist Western Europe

Rheinkalk GmbH, Werk Pelm, Kasselburger Weg, 54570 Pelm, Germany

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Sitz der Gesellschaft: Wülfrath - Registergericht: AG Wuppertal HRB 13596 - USt-IdNr.: DE121536503

Geschäftsführung: Ludwig de Mot (Vorsitzender), Dr. Philipp Niemann - Vorsitzender des Aufsichtsrates: Dr.-Ing. Hans-Dieter Harig

Bank: Commerzbank AG Mettmann, SWIFT-BIC: COBADEDDXXX, IBAN: DE55 3004 0000 0820 0610 00

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3. Chemical composition

Parameter	Result %	Limit % max.
SiO ₂	1,6	3
Fe ₂ O ₃	0,7	1
Al ₂ O ₃	1,3	2
CaO	0,2	1
K ₂ O	< 0,1	1
Na ₂ O	< 0,1	1

4. Elution with deion. water according DIN 38414 S4. Chemical analysis of heavy metals, cyanide and PAH

Parameter	Concentration [µg/l]	Method
As	<1	DIN EN ISO 11969 (D18)
Se	<1	DIN 38405 - D23
Sb	3	DIN 38405 - D32
Cd	<0,3	DIN EN ISO 5961 (E19)
Cr	<3	DIN EN 1233 (E10)
Ni	<3	DIN 38406 - E11
Pb	<5	DIN 38406 - E6
Hg	<0,4	DIN EN 1483 (E12)
CN	<5	DIN 38405 - D14
PAH *	<0,02	DIN 38407 - F8

* Polycyclic aromatic hydrocarbons: benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene

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