

SILIPORITE® NK 30 BEADS

Product Data Sheet

PRODUCT BENEFITS

SILIPORITE® NK 30 BEADS range of Molecular sieves is a synthetic zeolite type A of crystalline structure in Potassium-Sodium form, having an effective pore opening approximately of 3 angstroms (3A).

SPECIFICATIONS

SILIPORITE NK30 BEADS SPECIFICATIONS ARE IN COMPLIANCE WITH THE EUROPEAN STANDARD EN-1279/4-2018

OFFICIAL TEST REPORTS ON DESSICANT BEAD NK30B HAVE BEEN PERFORMED BY IFT-ROSENHEIM AND ARE AVAILABLE UPON REQUEST

- AWAC, LOI & TC (REPORT 17-002221-PR02) (NOTE: TC IS ADDITION OF AWAC & LOI)
- GAS DESORPTION & DENSITY (REPORT 18-004354-PR01)
- XRD & XRF & DELTA T VERSUS AWAC & LOI (ARKEMA TESTS)
- DELTA T CORRELATION CURVE WITH LOI & AWAC

	Unit	Values				Test control
BEADS / STANDARD GRAIN SIZE		1.6 mm	1.3 mm	1.0 mm	0.7 mm	
Particle size distribution retained	% weight					
- 0.5 mm		-	-	-	90 min	009
- 0.8 mm		-	-	75 min	-	
- 1.0 mm		-	80 min -	-	2 max	
- 1.25 mm		-	-	5 max	-	
- 1.4 mm		85 min	-	-	-	
- 1.6 mm		-	10 max	-	-	
- 2.0 mm		10 max	-	-	-	
Delta-T (50 g MS / 50 cc water)	(°C)	37 min	37 min	37 min	37 min	004
Loss on ignition (1 hour at 540°C)	% weight	1.7 max	1.7 max	1.7 max	1.7 max	001
Available water adsorption capacity (AWAC)						
- at 10 % RH (2.375 mm Hg) 23°C +/- 2°C	% weight	16.0 min	16.0 min	16.0 min	16.0 min	002
Gas desorption at 70°C	cm ³ /100 gr	30 max	30 max	30 max	30 max	015

NOTE: ARKEMA guarantees a maximum LOI of 1.7% and a Delta T at 37°C minimum at Siliporite delivery and packaging opening; End user for Insulated Glass application is allowed by Standard EN1279-4/2018 to use SILIPORITE NK30B for spacer filling with a maximum LOI of 3% corresponding to a minimum DELTA T of 33.5°C

STANDARD PACKAGING

SILIPORITE® NK 30 BEADS is delivered in waterproof drums and boxes or in bag as follows:

Box	Net weight: 25 kg / 1,200 kg pallet for NK30B0.7 & 1.3 only
Metallic drum	Net weight: 130 kg / 1,040 kg pallet for NK30B0.7, 1.0 & 1.3
Big bag	Net weight: 600 kg or 1,000 kg for NK30B0.7, 1.0 & 1.3 only;

• SILIPORITE® NK 30 BEADS

TYPICAL PHYSICAL PROPERTIES

	Unit	Values				Test control
DUST / FINE PARTICLES						
- 0.5 mm sieve opening	mg/100 gr	30	30	-	-	009
- 0.4 mm sieve opening	mg/100 gr	-	-	30	30	009
BULK DENSITY	g/cm ³	0.70 – 0.76	0.70 – 0.76	0.70 – 0.76	0.70 – 0.76	006

APPLICATIONS

SILIPORITE® NK 30 BEADS can be used as desiccant in:

- Building:
 - Insulating Glass Units with inner spacer.
 - Door windows for refrigerators.
- Fine Chemicals / Pharmaceuticals:
 - Drying of solvents.

FOR MORE INFORMATION

Contact your ARKEMA representative or ARKEMA's Molecular Sieves Department:

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