

CIRCULUM®

X-xxxxK

DESCRIPTION

X-K is an expandable polystyrene grade containing pentane as a blowing agent. The products are delivered in the form of spherical beads with a bulk density of about 0.6 g/cm³. X-GWW is available in 1050 kg octabins.

APPLICATIONS

The properties of X-K make it suitable for use in waterfiltration approved by OTV, the application is prefoamed beads with a density and a BSD according spec's in table on the next sheet. Tradename for OTV for prefoamed beads is Biostyreneclass 1-4 XXXX=1417-1619-1822-1923

PROCESSING

The processing conditions of **X-K** depend on the combination of the product and processing equipment used. Optimal settings have to be adjusted for each combination. Some general processing conditions are given below:

Prefoaming	The steam has to be mixed with air to reach temperatures of 90-100 °C, to reach densities 45-55 kg/m ³ , batch prefoamer is recommended
Conditioning	Depends on the density. The higher the density the longer the conditioning time. Generally 12–24 hours is recommended.
Moulding	The end-use of the products is pre-foamed beads. Molding is possible but the coating of the beads is optimized for only prefoaming.

STORAGE

X-K should be stored at below 20 °C. Protect from direct sunlight and other weather conditions (rain, wind, frost etc.). Keep away from any source of ignition. The storage time should not exceed three months. After opening of the packaging, it should be used as soon as possible.

SAFETY

In transport **X-K** is classified according to European regulations for product transport: Substance number UN2211, Class 9.

In processing avoid generating dust. All equipment should be properly earthen. Releases pentane during processing which might form a flammable/explosive vapour-air mixture. Use proper ventilation and keep away from any source of ignition. A Safety Data Sheet is available on request.

TECHNICAL INFORMATION

TYPICAL PHYSICAL PROPERTIES

SPECIFICATION OTV Grades					
		Class n°01	Class n°02	Class n°03	Class n°04
	Bewi Synbra Raw	X-1417K	X-1619K	X1822Ke	X1923Ke
		ST 09-02-17	ST 2-07-18	ST 16-3-15	ST 19-2-19
	Mmean beadsize (mm) EPS beads	1,58 mm	1,83 mm	2,00 mm	2,2 mm
	calculated average Image Analyses*	1,58	1,83	2,00	2,19
	* optional sieve analyses				
beadsizes distribution (µm)	spec mean beadsize IA	1510-1650	1750-1910	1910-2090	2050 - 2 300
	95% beads between IA	1250 - 1750	1400-1950	1 650 - 2 250	1 900 - 2 450
	5% between IA	950 - 1250	1200-1400	1350 - 1 650	1 550 - 1 900
	0,02 % smaller than IA				
	0,03% bigger than IA				
	max.0,05% smaller than SA	900	1.180	1,350	1,55
	max. 0,1% bigger than SA	1.800	2.000	2.250	2,45
	Fines =< (parts)	50	50	50	50
	Blowing agent (%)	4,5-5,5%	4,5-5,5%	4,5-5,5%	4,5-5,5%
	Biostyrene	BI5036	BI5040	BI5045	BI5050
	Diamètre moyen (mm) EPS foam beads	3,60+/-0,20mm	4,00+/-0,20mm	4,50+/-0,25mm	5,00+/-0,25mm
	D10	>2,90mm	>3,20mm	>3,60mm	>4,00mm
	C.U.	<1,25	<1,25	<1,25	<1,25
	Small beads <1%	2,50mm	2,80mm	3,15mm	3,55mm
	Big beads <1%	4,50mm	5,00mm	5,60mm	6,30mm
	Density range	50 +/-5 gr/l	50 +/-5 gr/l	50 +/-5 gr/l	50 +/-5 gr/l
	Visual	Now hollows accepted sphericity aspect: < 5% wth L/I >1,5			

RECYCLING

X-K is suitable for recycling using modern methods of grinding, cleaning and regranulation.

In-house production waste should be kept clean to facilitate direct recycling.

Please contact your BEWi RAW BV representative for more details on various aspects of safety, recovery and disposal of the product.