

Shur-Pak™ Glass Bead Filter Pack

Easier to install than traditional filter pack, Shur-Pak™ is stronger, chemically inert and are almost perfect spheres – virtually eliminating bridging during installation that can be an issue in traditional filter pack.

Shur-Pak Glass Beads are used as an upgrade from traditional filter packs for water wells. Shur-Pak is easy to handle and can be sized and installed using similar methods and techniques.

Features and Benefits

Glass beads for filter packs in water wells provide:

- Uniform and consistent bead size
- Stronger crush strength than gravel
- Simple to install and greatly reduces bridging
- Less compaction over the well life
- Faster development than gravel (40% - 60% reduction of time)
- Higher well efficiency
- Less loss of capacity from reduced bio-fouling and mineral scaling
- Extended operation intervals between well rehabilitation
- Easy to clean and chemical resistance
- Reduced operational costs
- Available in 1 metric ton sacks and 25 kg bags
- NSF/ANSI/CAN Standard 61 - Drinking Water System Components Certified

Shur-Pak glass
beads at 60x
magnification



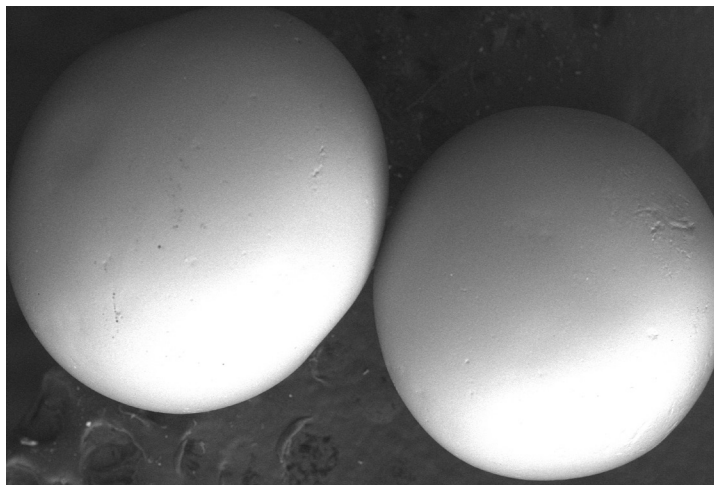
Shur-Pak Sizing Chart vs Sand

Size Range - 0.00						
10	20	30	40	50	60	70
Sand 20-40						
Shur-Pak 30-40 (0.023 - 0.016 in.)						
Sand 16 - 30						
Shur-Pak 20-30 (0.033 - 0.023 in.)						
Sand 12-20						
Shur-Pak 16-20 (0.047 - 0.033 in.)						
Sand 10-16						
Shur-Pak 12-16 (0.066 - 0.047 in.)						
Sand 8-12						
Shur-Pak 10-12 (0.079 - 0.066 in.)						
Sand 6 - 9						
Shur-Pak 6-10 (0.118 - 0.079 in.)						
Sand 1/8 x 1/4 in. *						
Shur-Pak 5-7 (0.157 - 0.118 in.)						

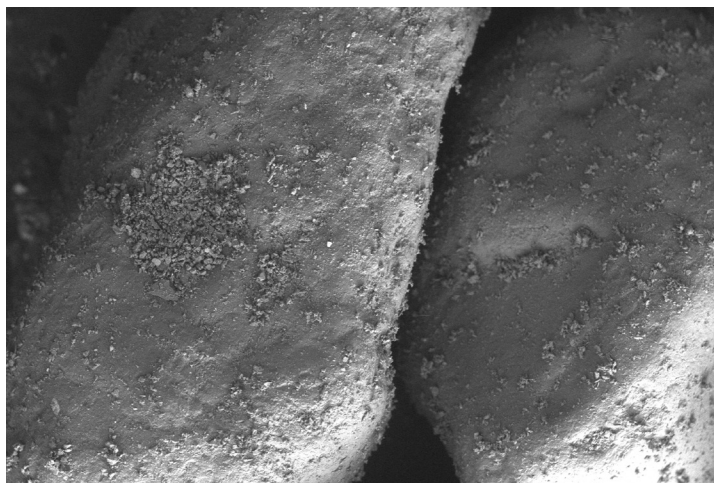
*Data extends off the graph

01 in. Increments

[illegible]



16-20 Shur-Pak beads magnified 50x with a scanning electron microscope (SEM)



8-12 Sand magnified 35x under a scanning electron microscope (SEM)

Shur-Pak Sizing

Product Description	US Mesh (approx)	Bead Diameter (in.)	Bead Diameter (mm)	Bulk Density (lb. ft. ³)
Shur-Pak 30-40	30 - 40	0.024 - 0.016	0.60 - 0.40	101.13
Shur-Pak 20-30	20 - 30	0.033 - 0.024	0.85 - 0.60	101.13
Shur-Pak 16-20	16 - 20	0.046 - 0.033	1.18 - 0.85	101.13
Shur-Pak 12-16	12 - 16	0.067 - 0.046	1.7 - 1.18	101.13
Shur-Pak 10-12	10 - 12	0.079 - 0.067	2.0 - 1.7	100.51
Shur-Pak 6-10	6 - 10	0.118 - 0.079	3.0 - 2.0	99.88
Shur-Pak 5-7	5 - 7	0.157 - 0.118	4.0 - 3.0	98.01

Chemical and Physical Properties

Parameter	Description
Physical Form	Solid, odorless, transparent, soda lime glass beads
Mean Roundness by Bead Diameter	>93%
Hardness	≥6.0-6.7 on Mohs scale
Melting point	1450 – 1500 deg C
Deformation temperature	580 – 650 deg C
Uniformity Coefficient	1.1 to < 1.45
Acidic Resistance (according to DIN 12116)	S2 Acid Resistant
Specific Gravity	>2.45

Chemical Composition

Composition	Percentage
Silicon Dioxide SiO ₂	69.6%
Sodium Oxide Na ₂ O	13.3%
Calcium Oxide CaO	10.9%
Magnesium Oxide MgO	4.23%
Aluminum Oxide Al ₂ O ₃	1.17%

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22-WW-019-v1-4-Eng