Gannon EcoPure

Crushed Glass Filtration Media

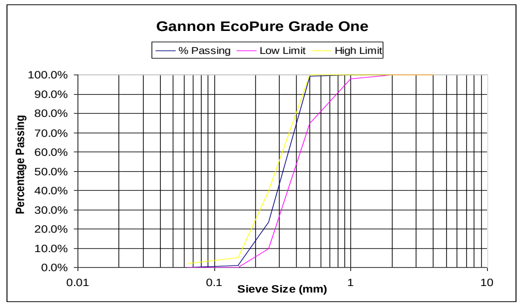
Gannon EcoPure is a 100% recycled glass filtration media intended for direct replacement of silica sand in industrial, commercial and domestic water and wastewater filtration systems. Gannon EcoPure is available in three grades that are suitable for use in both slow and rapid sand filtration systems, constructed wetland filtration bases and domestic sand polishing filters.

Product Specifications

Grade O

This is the finest of the Gannon EcoPure range with an effective size (d10) ranging from 0.16 – 0.27 mm and uniformity co-efficient (Cu) <1.8. Grading limits for Gannon EcoPure Grade One are as follows:

	Limits on % Passing	
Sieve Size(mm)	**Low Limit**	**High Limit**
4	100.00%	100.00%
2	100.00%	100.00%
1	98.00%	100.00%
0.5	75.00%	100.00%
0.25	10.00%	40.00%
0.15	0.00%	5.00%
0.063	0.00%	2.00%



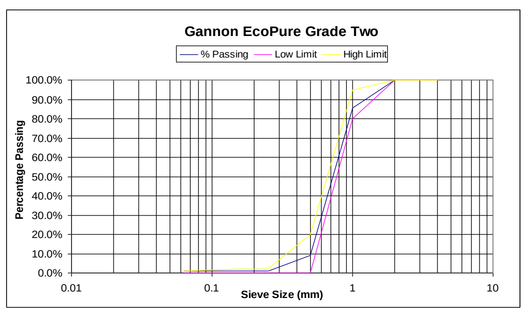
	D10	D20	D30	D40	D50	D60
Upper Limit	0.16	0.17	0.195	0.23	0.255	0.28
Lower Limit	0.27	0.29	0.325	0.36	0.395	0.43

Cu	Cz
1.750	0.849
1.593	0.910

Grade 1

Gannon EcoPure Grade Two is a medium grade with an effective size (d10) ranging from 0.34 – 0.55 mm and uniformity co-efficient (Cu) <2.12. Grading limits for Gannon EcoPure Grade Two are as follows:

	Limits on % Passing	
Sieve Size(mm)	**Low Limit**	**High Limit**
4	100.00%	100.00%
2	100.00%	100.00%
1	80.00%	95.00%
0.5	0.00%	20.00%
0.25	0.00%	2.00%
0.15	0.00%	2.00%
0.063	0.00%	1.00%



	D10	D20	D30	D40	D50	D60
Upper Limit	0.34	0.5	0.55	0.61	0.67	0.72
Lower Limit	0.55	0.6	0.65	0.71	0.78	0.85

Cu	Cz
2.118	1.236
1.545	0.904

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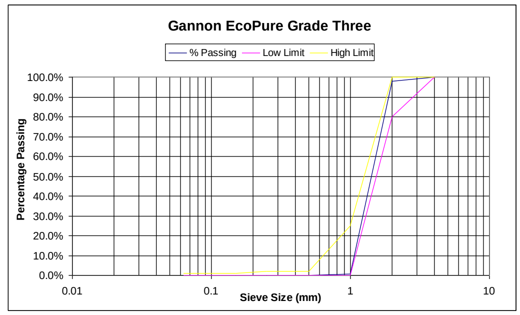
Grade 2

Gannon EcoPure Grade Three is a medium/coarse grade with an effective size (d10) ranging from 0.64 – 1.2 mm and uniformity co-efficient (Cu) <2.35. Grading limits for Gannon EcoPure Grade Three are as follows:

	Limits on % Passing	
Sieve Size(mm)	**Low Limit**	**High Limit**
4	100.00%	100.00%
2	80.00%	100.00%
1	0.00%	25.00%
0.5	0.00%	2.00%
0.25	0.00%	2.00%
0.15	0.00%	1.00%
0.063	0.00%	1.00%



	D10	**D20**	**D30**	**D40**	**D50**	**D60**
Upper Limit	0.64	0.85	1.05	1.25	1.4	1.5
Lower Limit	1.2	1.35	1.4	1.5	1.6	1.65

Cu	**Cz**
2.344	1.148
1.375	0.990

Features and Benefits

- Glass filtration media has an angular to sub-angular particle shape which provides an improvement in turbidity of the final treated water or effluent when compared to silica sand.

- Finer particles can be removed from water than an equivalent silica sand grade.

- It is less susceptible to bio-fouling as, particles have a smoother surface, so bacteria cannot get trapped in any cracks or flaws, which means less remedial action and less chemical treatment to destroy pollutants.

- Reduced filter clogging leads to reduced backwash frequency.

- Weak negative surface charge holds fine particles and positively charged iron and manganese ions that are easily released upon backwashing.

- Glass filtration media is not prone to degradation and therefore has a longer lifespan than silica sand and may not need changing even when the filter is due for refurbishment.

- Glass filtration media is an ideal filtration base material for constructed wetlands.

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