



# PRODUCT INFORMATION

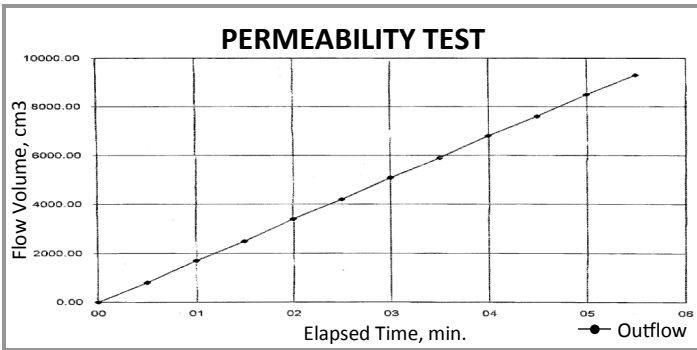
## BLUESTONE SUPPORT GRAVEL FOR MUNICIPAL & WASTEWATER APPLICATION

R.W. Sidley's operates a state of the art processing plant that produces the highest quality products virtually free of deleterious materials. R.W. Sidley's processed bluestone products are washed and screened at the Thompson Plant. All Bluestone Support Gravels meet AWWA specifications and are NSF certified for drinking water components.

Available packaging: 50 lb. bags, 3,000 lb. super sacks, 4,000 lb. super sacks and bulk quantities.

LABORATORY SIEVE ANALYSIS										
Product	3/4 X 1/2		1 X 5/8		1-1/4 X 5/8		1-1/2 X 3/4		2-1/2 X 1-1/2	
Mesh Size	CUM%PASS	SPEC.	CUM%PASS	SPEC.	CUM%PASS	SPEC.	CUM%PASS	SPEC.	CUM%PASS	SPEC.
2-1/2									100.0%	92-100
2									75.4%	
1-1/2					100.0%	92-100	100.0%	92-100	6.7%	0-8
1	100.0%		99.4%	92-100	99.4%		50.0%		3.2%	
7/8	100.0%		91.3%		91.3%		22.3%			
3/4	95.1%	92-100	27.7%		27.7%		4.6%	0-8		
5/8	57.3%		3.8%	0-8	3.8%	0-8	1.2%			
1/2	6.0%	0-8	0.0%		0.0%		0.6%			
3/8	1.0%						0.1%			
Pan	0.0%						0.0%		0.0%	

PHYSICAL ANALYSIS				
Description	Test Result	Specifications	Methods	Comments
Hydraulic Conductivity	1.33 X 10 <sup>-1</sup> cm/s	Minimum 1.0 X 10 <sup>-2</sup> cm/s	ASTM D 2434	Sample K value equals the maximum capacity of equipment. Actual flow may be greater.
Insoluble Residue /Carbonate Content	Insoluble Residue 99% / Carbonate Content 3.6%	Maximum 15% Carbonate Content	MTO LS-613	
Calcium Oxide (CaO) / Whole Rock Analysis	2.05%			



Testing: Results are typical for the product.

Laboratory Sieve Analysis: Testing was conducted at R.W. Sidley, Inc., Thompson, OH. Tests performed in accordance with ASTM D-75, ASTM C-136, and AASHTO T-176.

Chemical Analysis: Testing conducted by SGS Lakefield Research Ltd., Lakefield, Ontario.

Physical Analysis: Testing conducted by AME Materials Engineering, Brampton, Ontario & AMEC Foster Wheeler Environmental & Infrastructure, Durham NC.

CHEMICAL ANALYSIS	
Tests	Results/Units
Al <sub>2</sub> O <sub>3</sub>	14.2%
CeO	2.05%
Cr <sub>2</sub> O <sub>3</sub>	0.03%
Fe <sub>2</sub> O <sub>3</sub>	5.53%
LOI	1.91%
K <sub>2</sub> O	2.66%
MgO	2.11%
MnO	0.07%
Na <sub>2</sub> O	3.86%
P <sub>2</sub> O <sub>5</sub>	0.12%
SiO <sub>2</sub>	67.8%

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