

Download File PDF Determination Of Hydraulic Conductivity Of Porous Media From Grain Size Composition

#Jenny



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Cool! I'am really happy

#Markus Jensen



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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

The screenshot shows a software window titled "SizePerm - Hydraulic Conductivity from Sieve Analysis". It contains a menu bar (File, Calculate, Help), a company name (ACHE ENVIRONMENTAL LTD), and an address (123 Industrial Park Place, Houston, TX, 77001). Below this is a table of sieve analysis results with columns for Percent, Grain Dia. (mm), and a list of methods with checkboxes. The methods listed include Hazen, Skocher, Terzaghi, Beyer, Saubert, Kozeny, Zerkow, Ueda, USBR, and EasySolve Logo. The software also displays sample ID (94), measured porosity (0.25), sample interval (11.0' - 13.5'), compaction (Hazen) (150), sample date (12/22/99), and compaction (Uma) (600). A "Results" section shows: 0% < 0.075, 7% Gravel, 47% Sand, 27% Silt, and 19% Clay. The hydraulic conductivity is calculated as 5.95E-05 cm/sec, and the effective grain diameter is 0.0006 mm. The uniformity coefficient (n) is 244.546.

Percent	Grain Dia. (mm)	Method	Hydraulic Conductivity (cm/sec)	Effective Grain Diameter (de) (mm)	Method Applicability
0	0.0001				
14	0.0013				
19	0.0022				
20	0.006				
22	0.0082				
25	0.014				
28	0.022				
32	0.034				
47	0.075	<input checked="" type="checkbox"/> Hazen	5.95E-05	0.0006	0.1 < de < 3, and n < 5
69	0.25	<input checked="" type="checkbox"/> Skocher	3.52E-08	0.0006	0.01 < de < 5
82	0.41	<input type="checkbox"/> Terzaghi	4.32E-08	0.0006	large-grain sands
90	2	<input type="checkbox"/> Beyer	6.28E-08	0.0006	0.06 < de < 0.6, and 1 < n < 20
93	4.7	<input type="checkbox"/> Saubert	3.34E-07	0.0019	sand and sandy clay, and da < 0.5
100	12.7	<input type="checkbox"/> Kozeny	2.98E-07	0.0042	medium-grain sands, and n > 5
		<input checked="" type="checkbox"/> Zerkow	2.36E-08	0.0003	large-grain sands
		<input type="checkbox"/> Ueda	1.89E-08	0.0004	fine and medium-grain sands
		<input type="checkbox"/> USBR	2.34E-04	0.0006	sandy aquifers
		<input type="checkbox"/> EasySolve Logo	3.99E-06	0.0006	medium-grain sands, and n < 5

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