

Shrinkage limit (disc specimen)

Location	Job ref.	
	Borehole/Pit no.	
Soil description	Sample No.	
	Depth	m
Test method BS1377: Part 2: 1990: 6.4	Date	

TEST DATA

Specimen reference					
Shrinkage dish no.					
Mass of wet soil + dish	m3	g			
Mass of dish	m3	g			
Mass of wet soil	m1 =	m3 - m2	g		
Mass of dry soil + dish	m4	g			
Mass of dry soil	md =	m4 - m2	g		
Initial Moisture content	w1 =	$\frac{(m1 - md) * 100}{md}$ %			
Volume of mercury in shrinkage dish	V1.	mL			
Volume of mercury displaced by dry soil	Vd.	mL			
Volume of shrinkage	V1 - Vd	mL			
Shrinkage limit	Ws =	$\frac{W1 - (V1 - Vd) * 100}{md}$ %			
Shrinkage Ratio	Rs =	$\frac{md}{Vd}$			
Given moisture content	W	%			
Volumetric Shrinkage	Vs =	$\frac{W - Ws}{Rs}$			

DATA FOR SHRINKAGE CURVE

Measurement No.		1	2	3	4	5	6
Mass of soil pat	m	g					
Volume of soil pat	V	mL					
Volume per 100 g of dry soil	U =	$\frac{(V)}{md} * 100$					
Moisture content	w =	$\frac{(m - md)}{md} * 100$ %					

	Proportion Retained on 425 um sieve.....%		
	Shrinkage limit		
	Shrinkage ratio		
	Volumetric shrinkage		
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