

Laboratory Test Sheet  
**Relative Density - Pycnometer : BS812 Section 2**

Client : Alfred McAlpine Civil Engineering Site : Stanton North Phase II  
 Client Ref : 12345 Lab. Ref : 10073 Job No : B4240/96V Date Received : 04/09/1996  
 Supplier : \_\_\_\_\_ Source : \_\_\_\_\_  
 Material Type : Sub-base Specification : Type 1 Sub-base  
 Material Name : Type 1 Sub-base Aggregate Type : Not Known

<b>Moisture Content</b>				
Tin No.				
Weight of Wet Soil and Tin	M2	(g)		
Weight of Dry Soil and Tin	M3	(g)		
Weight of Tin	M1	(g)		
Weight of Moisture		(g)		
Weight of Dry Soil		(g)		
Moisture Content		%		
Time in Oven				
Time Out of Oven				
<b>Relative Density - Pycnometer</b>			<b>Test 1</b>	<b>Test 2</b>
Weight of Saturated Surface Dry Sample (SSD)	A (g)			
Weight of Pycnometer Sample and Water	B (g)			
Weight of Pycnometer and Water Only	C (g)			
Weight of Oven Dry Sample	D (g)			
Sample Immersion (24 +/- 1/2 hr)	Date in	1		
	Time in	2	Temp 1	4
	Time out	3	Temp 2	6
Immersion in Pycnometer	Time in	8	Temp 1	9
			Temp 2	11
				12
			Mean	
Relative Density (Oven Dried)		$\frac{D}{A - (B - C)}$		
Relative Density (SSD)		$\frac{A}{A - (B - C)}$		
Relative Density (Apparent)		$\frac{D}{D - (B - C)}$		
Water Absorption (% Dry Mass)		$\frac{100 * (A - D)}{D}$		
Oven Drying Time (24 +/- 1/2 hr)	Time in	17		
		Time out	18	
N.B. Ensure pycnometers are numbered before use and thoroughly dried on the outside before weighing				

Comments : \_\_\_\_\_  
 Tested By : \_\_\_\_\_ Date : \_\_\_\_\_ Checked By : \_\_\_\_\_ Date : \_\_\_\_\_  
 Check Level (1/2/3)

- Note:- \* Delete as appropriate
1. Report relative density to 0.01
  2. Report Water Absorption to 0.1%
  3. State whether sample has been oven dried before test: YES/NO