

Laboratory Test Sheet

HOT SAND TEST - BITUMINOUS PAVEMENT MATERIALS

Client :	<u>Alfred McAlpine Civil Engineering</u>	Site :	<u>Stanton North Phase II</u>
Client Ref :	<u>12345</u>	Lab. Ref :	<u>10073</u>
Supplier :		Job No :	<u>B4240/96V</u>
Material Type :	<u>Sub-base</u>	Source :	
Material Name :	<u>Type 1 Sub-base</u>	Specification :	<u>Type 1 Sub-base</u>
		Binder Type/Grade :	

Sand Preparation

Spread 150-300um sand 25mm deep on two trays. Place in oven at 125 to 130C for at least 2 hours.

Time in	
Time out	

Sieve Chippings for 30 Seconds

Use a 10mm sieve for 20mm Chips or a 6.3mm sieve for 14mm Chips.

Moisture on Pre-Coated Chippings

If wet then place in Oven for at least 2 hours at 60C.

Time in	
Time out	
W1(g)	

Weight of Dried Sample

Check Sand Temperatures

Check at several points in the tray. If 125 to 130C has not been reached leave for a further period.

Spread Chippings

Place Chippings in Hot Sand within 2 to 3 minutes, to prevent heat loss.

Check Final Sand Temperature >100

After placing Chippings in the Oven for a minimum of 10 minutes. Check final Sand Temperature >100C

Time in	
Time out	

Remove Chippings

Pour onto a 3.35mm Sieve and allow to cool for about 10 minutes

C	
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Place in Tin

Place in the 4.5 litre Tin with the 1.18 to 600 grit and attach lid

Shake in Tin

Shake Tin longitudinally a total of 100 cycles in about 50 seconds, with a displacement of about 100mm

Wash Chippings

Pour Chippings and Sand onto a 3.35mm Sieve. Disgard Sand, and wash Chips, place on absorbent paper and dry with Hot air blower

Weight of Dried Treated Sample

Report to nearest 0.1g

W2(g)	
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Sand Retention

Report to nearest 0.1g/kg

$(W1-W2)/W1 * 1000$

g/kg	
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Weight of Rejected Sample

Chips with less than half Sand cover

W3(g)	
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Proportion of Rejected Chips

Report to nearest 0.1%

$(W3 * 100)/W2$

%	
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Comments : _____

Tested By : _____ Date : _____ Checked By : _____ Date : _____

Check Level (1/2/3)

Notes : * Delete as applicable