

# Certificate of Analysis



**SINCE 1985**

*Quality Controlled Through Analysis*

10630 FALLSTONE RD. HOUSTON, TEXAS 77099  
P.O. BOX 741905, HOUSTON, TEXAS 77274

**TEL: (281) 495-2400**  
**FAX: (281) 495-2410**

<b>CLIENT:</b>	Cold Mix Manufacturing	<b>REQUESTED BY:</b>	Mr. Warren Day
<b>SAMPLE:</b>	Greenpatch Solution	<b>REPORT DATE:</b>	February 5, 2009
<b>LABORATORY NO:</b>	53852-01 R Page 1 of 2	<b>PURCHASE ORDER NO:</b>	Pending

**TEST**

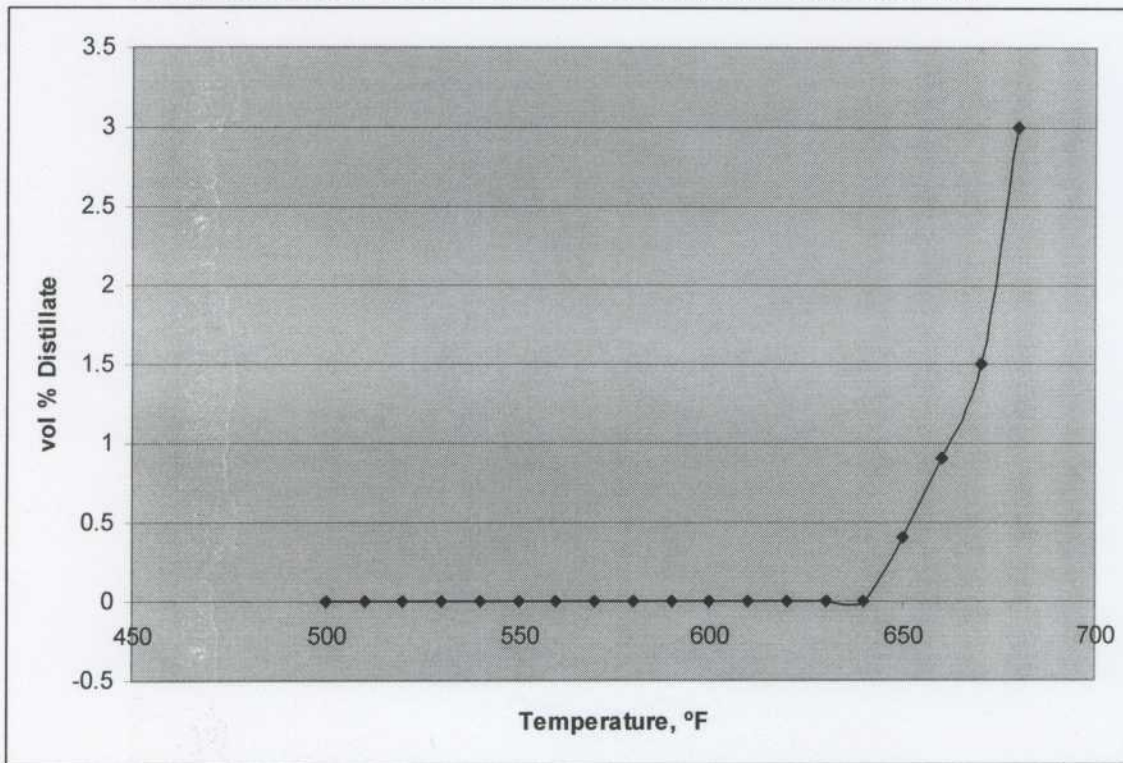
**RESULT**

***Distillation of Cut-Back Asphaltic (Bituminous Products), ASTM D 402\****

Asphaltic Residue, at 680°F, vol% .....	97.0
Total Distillate, VOC's, at 680°F, vol% .....	3.0

\* This procedure measures the amount of the more volatile constituents in cut-back asphaltic products at 680°F.

**Distillation Volume Percent Overhead versus Distillation Temperature (°F)**



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TEST

RESULT

## ASTM D 402, Distillation Temperature and Volume Percent Overhead Data

<u>Temperature, °F</u>	<u>Distillate, vol %</u>
500	0
510	0
520	0
530	0
540	0
550	0
560	0
570	0
580	0
590	0
600	0
610	0
620	0
630	0
640	0
650	0.4
660	0.9
670	1.5
680	3

Respectfully submitted  
FOR: TEXAS OILTECH LABORATORIES, L.P.

*Bob Rannal*

*For* Mitchell D. Martin  
Assistant Director of Laboratory Operations



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<b>CLIENT:</b>	Cold Mix Manufacturing	<b>REQUESTED BY:</b>	Mr. Warren Day
<b>SAMPLE:</b>	Conventional Cold Mix Solution	<b>REPORT DATE:</b>	February 5, 2009
<b>LABORATORY NO:</b>	53852-02 R Page 1 of 2	<b>PURCHASE ORDER NO:</b>	Pending

**TEST**

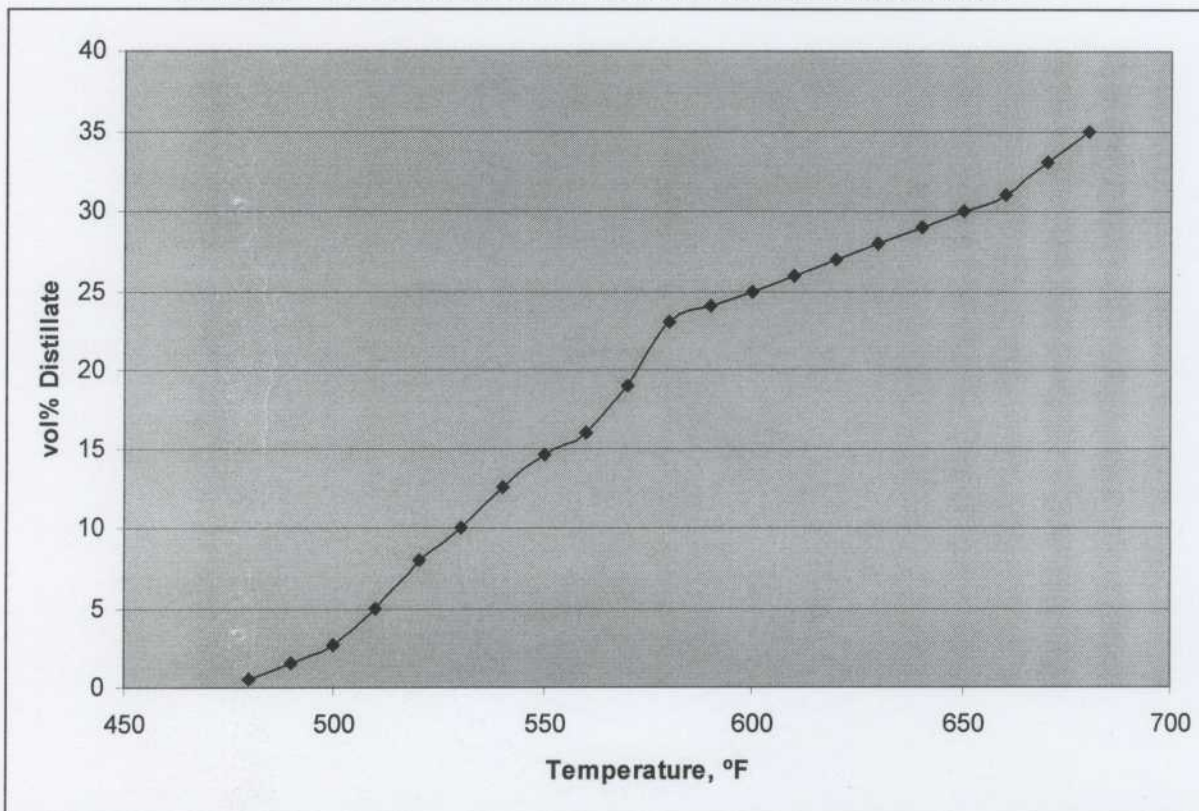
**RESULT**

***Distillation of Cut-Back Asphaltic (Bituminous Products), ASTM D 402\****

Asphaltic Residue, at 680°F, vol% .....	65.0
Total Distillate, VOC's, at 680°F, vol% .....	35.0

\* This procedure measures the amount of the more volatile constituents in cut-back asphaltic products at 680°F.

**Distillation Volume Percent Overhead versus Distillation Temperature (°F)**



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CLIENT:	Cold Mix Manufacturing	REQUESTED BY:	Mr. Warren Day
SAMPLE:	Conventional Cold Mix Solution	REPORT DATE:	February 5, 2009
LABORATORY NO:	53852-02 R Page 2 of 2	PURCHASE ORDER NO:	Pending

TEST

RESULT

## ASTM D 402, Distillation Temperature and Volume Percent Overhead Data

<u>Temperature, °F</u>	<u>Distillate, vol %</u>
480	0.5
490	1.5
500	2.7
510	5.0
520	8.0
530	10.0
540	12.5
550	14.5
560	16.0
570	19.0
580	23.0
590	24.0
600	25.0
610	26.0
620	27.0
630	28.0
640	29.0
650	30.0
660	31.0
670	33.0
680	35.0

Respectfully submitted  
FOR: TEXAS OILTECH LABORATORIES, L.P.

*Mitchell D. Martin*  
Mitchell D. Martin  
Assistant Director of Laboratory Operations



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