

KANSAS STATE

U N I V E R S I T Y

Paint, Misc. and Asphalt Sampling Workbook

**Certified Inspector
Training Program**



Paint, Misc. and Asphalt Sampling Workbook

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PAINT, MISCELLANEOUS, AND ASPHALT SAMPLING (PMA)

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The Sampling and Submitting of Asphalt Materials

- Performance Graded Asphalt Binders (PGABs)
- Emulsified Asphalts
- Cutback Asphalts



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PERFORMANCE GRADED ASPHALT BINDERS (PGABs)

- metal quart cans
- 2 quarts of each sample
- The laboratory will test the second quart if the first one fails.
- Use clean, dry cans.

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SAMPLING FREQUENCY FOR PGABs

- LEVEL I – Sample one of every 3 loads.
After five samples are tested and accepted, the material moves to:
- LEVEL II – Sample one of every 6 loads.
After five more (a total of ten) samples are tested and accepted,
the material moves to:
- LEVEL III – Sample one of every 12 loads.

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PGAB SAMPLES

- Keep the cans clean and dry.
- No rust, dirt, or debris in the can or asphalt on the outside of the can.
- Label cans with the grade, the source (name and location), and any other identifying numbers.

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PGAB SAMPLES

- Samples over 14 days old will not be tested.
- Samples containing water will not be tested.
- Samples containing dirt, leaves, sticks, cigarette butts, etc. will not be tested.

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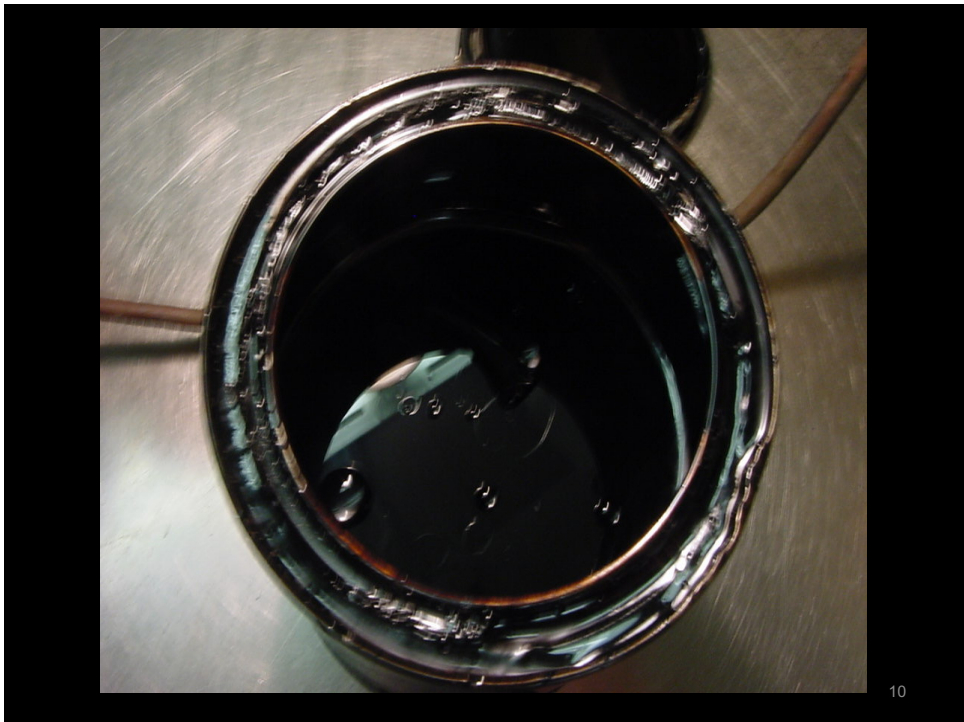
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EMULSIFIED ASPHALT SAMPLES

- One Gallon
- Clean, Dry, Plastic containers
- Fill the plastic container full

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EMULSIFIED ASPHALT SAMPLES

- Send in emulsified asphalt samples ASAP!
- Do not dilute the sample!
- Label the sample with grade, source (name and location) and any other identifying numbers.

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EMULSIFIED ASPHALT

- Samples that are old and have “broken out” will not be tested.
- Samples that have been diluted will not be tested.
- Samples that are not full will not be tested.

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EMULSIFIED ASPHALT

- Approximately 1/2 of all emulsified asphalt samples submitted are not tested because they are “broke out”, are diluted, or are not full.

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CUTBACK ASPHALT

- 2 metal, quart cans
- If the first can fails, the laboratory will test the second can.
- Use clean, dry cans.
- Keep the cans clean and dry.
- Label the cans with the grade, source (name and location) and any other identifying numbers.

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CUTBACK ASPHALT

- Samples containing water will not be tested.
- Samples containing debris will not be tested.
- Samples over 14 days old will not be tested.

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TO SUMMARIZE:

**Use the proper container for the material you are sampling.

- **PGAB** – 2 METAL QUART CANS
- **EMULSIFIED ASPHALT** – 1 PLASTIC GALLON CONTAINER
- **CUTBACK ASPHALT** – 2 METAL QUART CANS

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LABEL THE SAMPLE

**LABEL the container with at least the following:

- **GRADE**
- **SOURCE** (Name and Location)
- **IDENTIFICATION NUMBER**

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REMEMBER:

- Make sure the lid of the asphalt sample container is secure. If the lid comes off during transport, the laboratory will not be able to test it.
- NEVER use a solvent soaked paper or cloth to clean the asphalt sample container. The solvent can contaminate the sample, and give inaccurate test results.

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PART V REFERENCES

- 5.7.1 – Asphalt Materials
- 5.9.26 – Sampling Asphalt Materials
(Kansas Test Method KT-26)
- 5.5.2.2 – Required Sample Sizes
(Bituminous Material)

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PREQUALIFIED LIST

- PQL 4.1

This list contains all prequalified:
Performance Graded Asphalt Binders,
Emulsified Asphalts, and
Cutback Asphalts

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WHO CAN YOU CALL??

- If you have questions about the sampling and submitting of asphalt materials, you can always call the Materials Lab:
- **Brent Gurwell**, ET Specialist, Chemistry Section, Asphalt Subsection
785-296-0392

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The Sampling and Submitting of Paint and Miscellaneous Materials



- Center Mount Reflectors
- Bridge Paint

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Purpose:

- Become familiar with the materials that you need to sample
- Learn how to sample the material
- Learn how to submit the material to the lab for testing

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Reasons for Proper Sampling:

- To make your job easier:
Learn where to locate information.
Reduce the number of samples and resamples.
- To assure the quality of our highways:
Proper sampling helps guarantee that the materials used in KS highways meet our specifications.
- To save money:
Unnecessary and improper sampling costs the state in shipping, handling, waste disposal, and man-hours.

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Certifications

- Many of the materials discussed in this next section of the class are required to have a certain type of certification as a basis of acceptance.
- The Materials Certifications Specification is 15-26001-R09.

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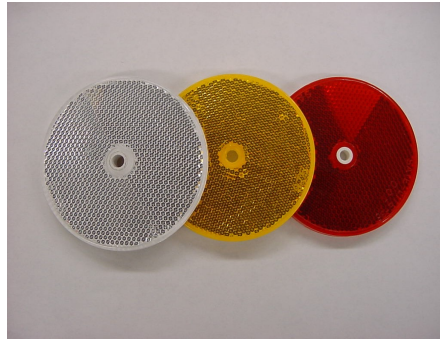
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- **b. Types of Certifications.**
-
- (1) Type "A" certification. This certification is to include a copy of the results of tests conducted by the manufacturer's or other qualified laboratory on samples obtained from the lot or lots of material in the shipment. When a mill test report is submitted as the laboratory report, the quantity in the shipment does not need to be included on the report, provided that the identifying heat or lot numbers involved are roll stamped, embossed, or durably affixed to each item of material in the shipment represented by the report. In this case, provide the necessary quantity information on a cover sheet, clearly identifying the quantity of each heat or lot in the shipment.
-
- (2) Type "B" certifications. This certification is to include a current summary of the maximum to minimum range of the manufacturer's quality control test results as determined by the manufacturer's or other qualified laboratory. These summaries must provide data on all major specification requirements. Also include the range of lots and manufacture dates represented by the data. When combining multiple components into a single item, submit a detailed parts summary indicating the lot/heat number, part description and quantity for each part. Summary reports dated more than six months prior to the date of manufacture or shipment of the product will not be accepted. The Engineer of Tests may also request copies of detailed test reports for material produced during a specified time interval for verification of the certification.
-
- (3) Type "C" certifications. This certification is to include a statement certifying that the material in the shipment is essentially the same as material that is prequalified.
-
- (4) Type "D" certifications. This certification is to comply with **subsection 2601.2a.**
-
- (5) Type "E" certifications. This certification applies to assemblies or structures that are composed of two or more components or materials. These components or materials have been approved previously on an individual basis for KDOT projects, but lose their identity when they are incorporated into an assembly or structure. This certification would apply to signs, overhead sign and lighting structures, etc. The certification is to state that all the components or materials used in the fabrication of the represented assembly or structure were previously approved for KDOT use.

This section will cover:

- **Center Mount Reflectors**
- **Bridge Paints**

Center Mount Reflectors



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Center Mount Reflectors

Part V 5.5.2.9.1 2015 SMS, Section 2204

Three colors: White Amber Red

Basis of Acceptance:

Each batch/lot is tested

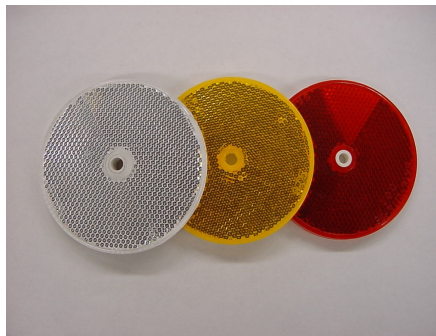
Sample Size:

Randomly select 18 reflectors per each 5000 for each color.

and

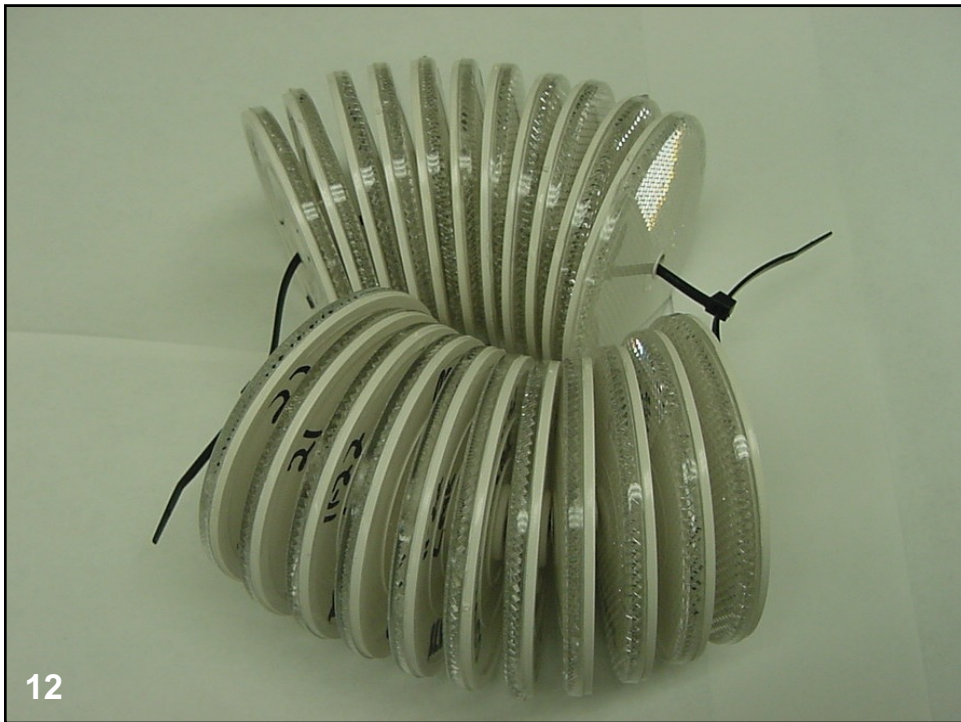
4 reflectors for each additional 5000 or fraction thereof.

Protect the faces of the reflectors from scratches and damage during shipping.





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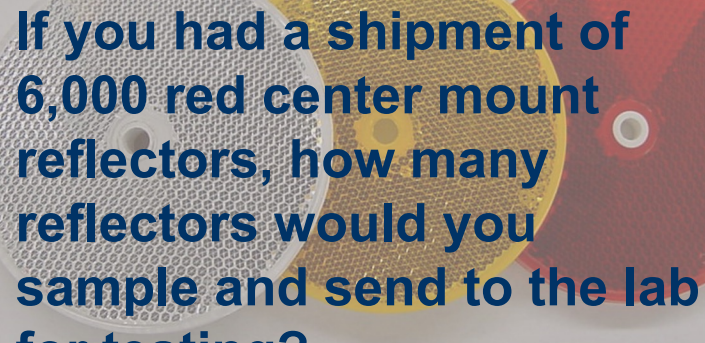


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Quiz



If you had a shipment of 6,000 red center mount reflectors, how many reflectors would you sample and send to the lab for testing?

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ANSWER:

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(18 for the first 5,000 and an additional 4 for the extra 1,000)

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Bridge Paint

Part V 5.7.7.1

Bridge Paint Primers:

- Inorganic Zinc Primer
- 2015 SMS, Section 1801
- PQL 18.1

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Bridge Paint

Part V 5.7.7.1

Bridge Paint Primers:

- Organic Zinc Primer
- 2015 SMS, Section 1802
- PQL 18.3

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Zinc Primer



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Bridge Paint

Part V 5.7.7.1

Bridge Paint Finish Coat:

***Water-Borne Acrylic 2015 SMS, Section 1806, PQL 18.6
(Used with Inorganic Zinc and Organic Zinc Primers)**

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Finish Coats



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Bridge Paint Part V 5.7.7.1

Bridge Paint Systems:

- Moisture Cure Urethane System

2015 SMS, Section 1807, 15-18001-R01, PQL 18.8
(A two or more component system, including a primer and a topcoat)

- Calcium Sulfonate Alkyd System

2015 SMS, Section 1808, 15-18002-R02, PQL 18.7
(A three-component system, including a sealer, primer, and topcoat)

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Bridge Paint

BASIS OF ACCEPTANCE (2015 SMS):

1. Prequalification
2. Receipt and approval of a Type C certification
3. Visual observation of performance on the project
4. No verification sample required but can **always** be submitted

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Sampling Bridge Paint

Part V 5.9.28, Kansas Test Method KT-28

*Liquid Portion

Either a 1 gallon can as shipped or a one quart can sample from larger shipped containers. Be sure container is thoroughly mixed before sampling.

*Dry Pigment

One pint taken at random from the shipped container

Use proper type container for sampling. **Many paints contain water or react with metal.**

Each part of a multi-component paint needs to be sampled and submitted on the same CMS form.

Label each container with:

- Producer
- Product Name or Number
- Recommended Mix Ratio
- CMS Number

IMPORTANT

*The product name is needed and should also be added in the "remarks" in CMS.

**Samples should never be taken after the paint has been thinned, from a paint pot of the spraying system or from a spray nozzle as such samples are not representative of the paint as it was originally tested and accepted. "

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Quart

What to use for sampling:

Clean, one pint or one quart friction top containers (metal or plastic) for single component paint, paste and pigment.

Wide-mouth screw-top plastic quart containers or plastic-lined cans for the liquid components of multi-component inorganic zinc paints. Never place samples of these materials in unlined metal screw or friction top cans.

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Bridge Paint

Part V 5.7.7.1

“Paint that has been tested and accepted by the laboratory may be unfit for use if held in storage for extended periods of time. If the contractor is unable to mix the paint so that the pigment is completely and uniformly incorporated with the vehicle, the Engineer should reject it and require the contractor to obtain new material. Attention is called to the fact that it is extremely difficult to properly mix a five gallon can of paint by stirring with a paddle. If any hard pigment settlement is present it is impossible to do so. If necessary, the Engineer should insist that the paint be mixed according to **KT-28**. Make sure all paints have been thoroughly mixed prior to sampling. “

Sampling Bridge Paint Part V 5.9.28, KT- 28

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The Sampling and Submitting of Paint and Miscellaneous Materials



- Pavement Marking Paint and other
- Pavement Marking Materials

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Pavement Marking Material

A. Applied in a liquid form:

1. Pavement Marking Paint
2. Epoxy Pavement Marking Material
3. Multi-Component Liquid Pavement Marking Material
4. Thermoplastic/Sprayed Thermoplastic Pavement Marking Material

These all require glass beads to be added upon application.

B. Applied as a tape:

1. Cold Plastic/Patterned Cold Plastic Pavement Marking
2. High Durability Pavement Marking Tape
3. Temporary Pavement Marking Tape
4. Preformed Thermoplastic Pavement Marking Material

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Pavement Marking Paint

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Pavement Marking Paint

Part V 5.7.7.2

2015 SMS, Section 2215, 15-22004-R02

Basis of Acceptance:

1. Type D Certification
2. Visual Inspection

Verification samples required:

- a. 2 one-quart samples of each color by lot

Sampling Traffic Line Paint, Part V 5.9.68

(Kansas Test Method KT- 68)

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Sampling Pavement Marking Paint

Part V 5.9.68 (KT-68)

Allow the truck to apply paint for at least 1/2 hour before taking the sample.

Completely fill 2 one-quart plastic-lined metal cans.

Take samples from the paint tank drain.

Label samples with:

- *Paint Producer
- *Batch/Lot Number
- *CMS Number



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Epoxy Pavement Marking Material

2015 SMS, Section 2214, 15-22002-R02

Basis of Acceptance:

1. Prequalification
2. Type C Certification

Verification samples required:

- a. ½ pint sample of each color and ½ pint of the hardener from one lot per project.

Both Large and Regular Beads are used with this material.

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Sampling Epoxy Pavement Marking Material

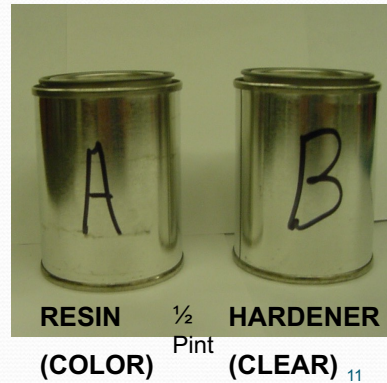
Part V 5.9.66, Kansas Test Method KT-66

*Allow the truck to apply the epoxy for approximately ½ hour before taking the sample.

*Take a ½ pint sample for each color

*Sample both (Part A) resin and (Part B) hardener, one per manufacturer per project.

Do not mix Resin and Hardener



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Sampling Epoxy Pavement Marking Material

Label each sample of resin and hardener with:

- *Producer
- *Product ID
- *Batch/Lot Number
- *Project Number
- *Date Sampled
- *CMS Number (Parts A and B need different identification numbers)

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Multi-Component Liquid Pavement Marking Material

- Two or more components
- Can be mistaken for Epoxy Pavement Marking Material

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Multi-Component Liquid Pavement Marking Material

Part V 5.7.7.3 2015 SMS, Section 2217, 15-22003-R02

Basis of Acceptance:

1. Prequalification
2. Type C Certification
3. Visual Observation of performance on the project.

Verification sampling required:

½ pint of each color and ½ pint of the hardener from one lot per project.

Can be confused with Epoxy Pavement Marking Material.

Check Product Number to tell the difference.

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Thermoplastic Pavement Marking Material



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Thermoplastic Pavement Marking Material

Thermoplastic Pavement Marking Material:

Part V 5.7.7.4
2015 SMS, Section 2211, 15-22007-R01
PQL 19.6

Sprayed Thermoplastic Pavement Marking Material:

Part V, 5.7.7.6
2015 SMS, Section 2213, 15-22009-01
PQL 19.10

Preformed Thermoplastic Pavement Marking Material:

Part V 5.7.7.5
2015 SMS, Section 2212, 15-22008-01
PQL 19.9

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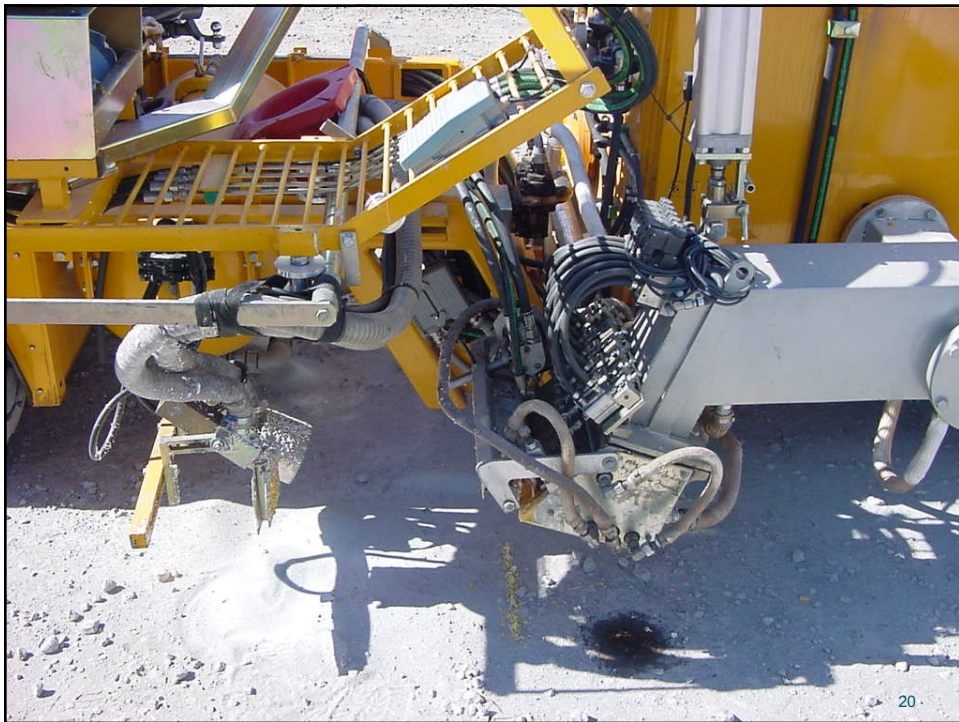


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Thermoplastic Pavement Marking Material

•Regular - 2015 SMS, Section 2211, 15-22007-01

•Sprayed - 2015 SMS, Section 2213, 15-22009-01

Basis of Acceptance:

1. Prequalification
2. Type C Certification
3. Visual observation of performance on the project.

Verification samples required:





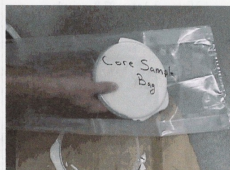
- a. 1 gallon lid for each color per manufacturer per project.

Field Sampling of Thermoplastic Pavement Marking Material

Part V 5.9.30 (Kansas Test Method KT- 30)

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<p>FIELD SAMPLING OF THERMOPLASTIC PAVEMENT MARKING MATERIAL (Kansas Test Method KT-30)</p> <p>a. SCOPE</p> <p>This procedure outlines the proper method for sampling Thermoplastic Pavement Marking Materials on the roadway. As with any sampling procedure securing a representative sample must be the primary goal of the sampler.</p> <p>b. APPARATUS</p> <p>b.1. Gallon-can lids.</p> <p>b.2. Protective barrier to keep material from overflowing the lid on to the roadway. Two possible suggestions are cardboard and sheet metal.</p> <p>c. OBTAINING A REPRESENTATIVE SAMPLE</p> <p>c.1. Avoid obtaining a sample immediately on startup of the striping contractor. The sampler should wait until the unit has been operating for one hour prior to obtaining the sample.</p> <p>c.2. Obtain a representative sample from individual lots of material when possible. If the contractor is using multiple lots in the melter from a single manufacturer, then verify preprior certifications are available for the lots and secure a sample from that blended quantity. Mixing of multiple manufacturers' lots is not permitted.</p> <p>c.3. Once b.1. and b.2. have been satisfied, place a gallon can lid under the spray nozzle, so the lid tip is up (see figure 1), with a protective barrier beneath the lid.</p> <p>c.4. Do not permit any drop-on beads to come in contact with the representative sample during the sampling process or while it is cooling. It is necessary to determine the amount of beads in the thermoplastic mix itself. Drop-on beads will provide a false value for the quantity of beads in the thermoplastic.</p>	<p>c.5. Have the contractor dispense enough thermoplastic from the melter to fill the lid. Permit the thermoplastic to cool (see figure 2).</p> <p>c.6. Once the thermoplastic has cooled, break excess material off the outer edge of the lid and place in a plastic bag to keep clean for shipping to MRC (see figure 3 and 4).</p> <p>d. REPORT</p> <p>d.1. Report the CMS number, Lot number, and Manufacturer of the Thermoplastic on a piece of paper and send with the thermoplastic, still on the lid, to MRC (see figure 5). Do not write on the thermoplastic material.</p>  <p>Figure 1 Can lid with protective material underneath</p>  <p>Figure 2 Lid after thermoplastic has cooled to handle</p>	 <p>Figure 3 Removal of excess thermoplastic from lid</p>  <p>Figure 5 shipping documentation</p>  <p>Figure 4 Sample placed in bag for shipment</p>
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Summary



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Method of Sampling Thermoplastic Pavement Marking Material

Part V 5.9.30 KT-30

Wait until the unit has been operating for 1 hour before taking the sample.

1 – Gallon Lid

DO NOT ADD BEADS

Mark Plastic bag or card with

- *Manufacturer
- *Batch/Lot Number
- *Identification Number

DO NOT WRITE ON SAMPLE

KEEP SAMPLE CLEAN

Can mix lots from same manufacturer.

Do not mix manufacturers.



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Preformed Thermoplastic Pavement Marking Material

Part V 5.7.7.5, 2015 SMS, Section 2212, 15-22008-01

(Used for stop bars and symbols)

Basis of Acceptance:

1. Prequalified List
2. Type C Certification
3. Visual observation of performance on the project.
4. No Verification sample required for symbols.



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Pavement Marking Tapes

Part V, 5.9.81, KT-81, Sampling Cold Plastic, Patterned Cold Plastic and High Durability Pavement Marking Materials.

Three types of Plastic Pavement Marking:

***Cold Plastic Pavement Marking Material**

2015 SMS, 15-22012 PQL 19.3

***Patterned Cold Plastic Pavement Marking Material**

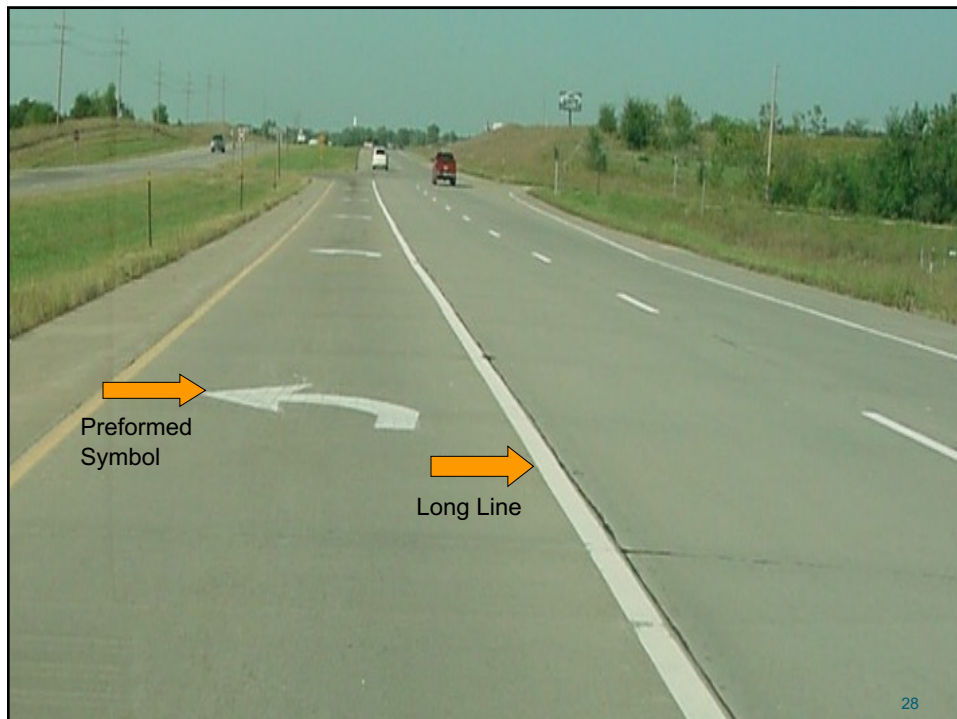
2015 SMS, 15-22013 PQL 19.5

***High Durability Pavement Marking Tape**

2015 SMS, 15-22014 PQL 19.8

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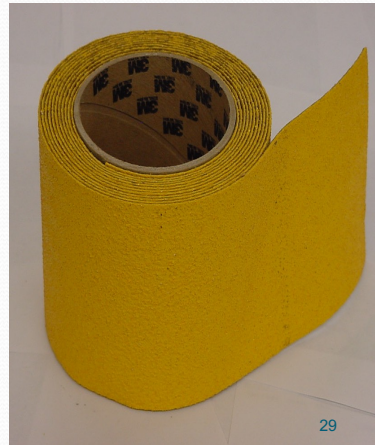
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Cold Plastic Pavement Marking Material

2015 SMS, 15-22012

Basis of Acceptance:

1. Prequalified List
2. Long Line
 - a) Verification sample for each lot & color
3. Preformed Symbols
 - a) Type C Certification
 - b) No verification sample required



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Patterned Cold Plastic Pavement Marking Material

2015 SMS, 15-22013

Basis of Acceptance:

1. Prequalified List
2. Long Line
 - a) Verification sample for each lot & color
3. Preformed Symbols
 - a) Type C Certification
 - b) No verification sample required



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High Durability Pavement Marking Tape

2015 SMS, 15-22014

Basis of Acceptance:

1. Prequalified List
2. Long Line
 - a) Verification sample for each lot & color
3. Preformed Symbols
 - a) Type C Certification
 - b) No verification sample required

Looks the same as Cold Plastic Pavement Marking
Check the product Number



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Sampling Tips

- With a felt tip marker, write the Brand and Lot number on the masking tape or liner.
- Use care as not to soil the sample on either side. Samples with smudges can lead to bad test results.

General Tips

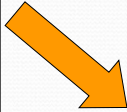
Sampling Thermoplastic Materials

- Please read KT method #30 for sampling Thermoplastic.

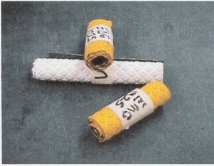
Sampling Cold Plastic & High Durability Pavement Marking Tape

Sampling Epoxy Pavement Marking


- The term sample, in the case of Epoxy Pavement Marking, refers to part "A" - Resin and part "B" - Hardener.
- One sample must be submitted for testing per color per project per manufacture..
- Prior to collecting samples, allow the truck to apply epoxy pavement marking material and beads for approximately one half hour.
- Coordinate the sampling site with the contractor.
- Obtain a 1/2-pint can sample of "Resin" and a 1/2-pint can sample of "Hardener". Mark the Resin "A" and the Hardener "B". **DO NOT MIX THESE SAMPLES. DO NOT SUBMIT GALLONS.**



Cold Plastic



Cold Plastic

- 
- Samples without a liner should be rolled on themselves with the adhesive to the inside. Secure the roll with masking tape. Samples with a liner should be sent in flat or rolled, leaving the liner on the sample.

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WHO CAN YOU CALL??

- Verification samples can always be submitted for any material. If you have questions about the sampling and submitting of center mount reflectors, bridge paint, or pavement marking materials you can call the Materials Lab:
- **Chad Dexter**, ET Specialist, Chemistry Section,
Paint & Miscellaneous Subsection
785-296-4517

KDOT Intranet

<http://kdotweb.ksdot.org/KDOTorg/ConstMat/Chemlab/misc.asp>

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KDOT Intranet Home x +

← → ↻ ⚠ Not secure | kdotweb/

Kansas
Department of Transportation

KDOT SEARCH: search

Home Employee Info Documents & Manuals Document Management GIS/Maps Organizational Pages Forms Warehouse

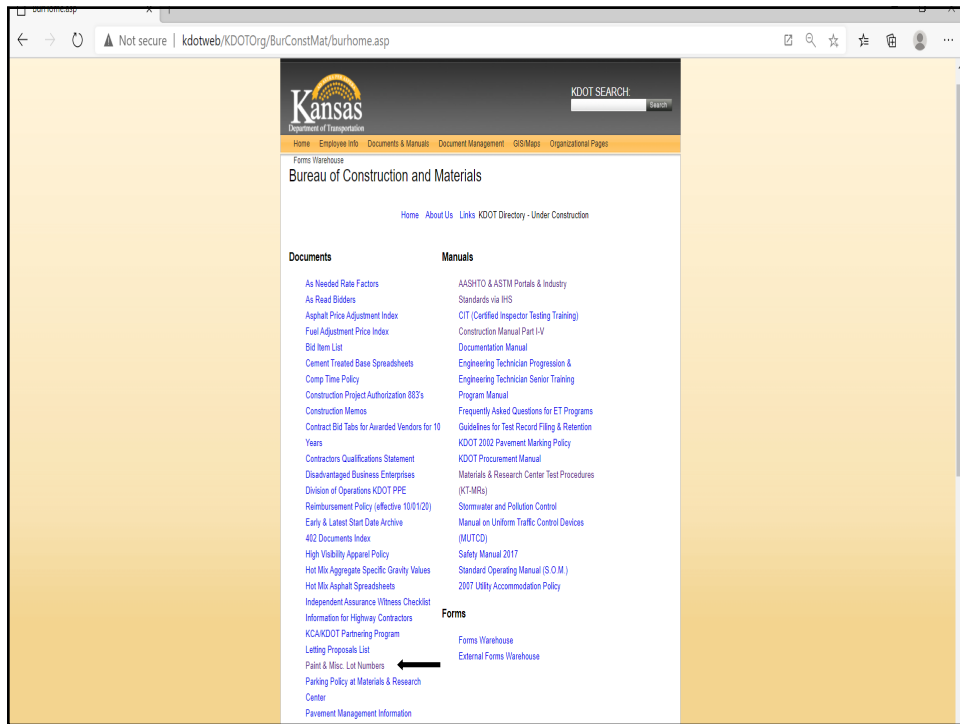
Districts	Links	Projects
One, Topeka	Human Resources	SOMs
Two, Salina	Employee Training	Benefit Information
Three, Norton	Road Conditions / KCARS	Business Areas
Four, Chanute	KDOT Applications	Organizational Chart
Five, Hutchinson	KORA Administrator	ESOB Emergency Procedures
Six, Garden City	Reports Portal	

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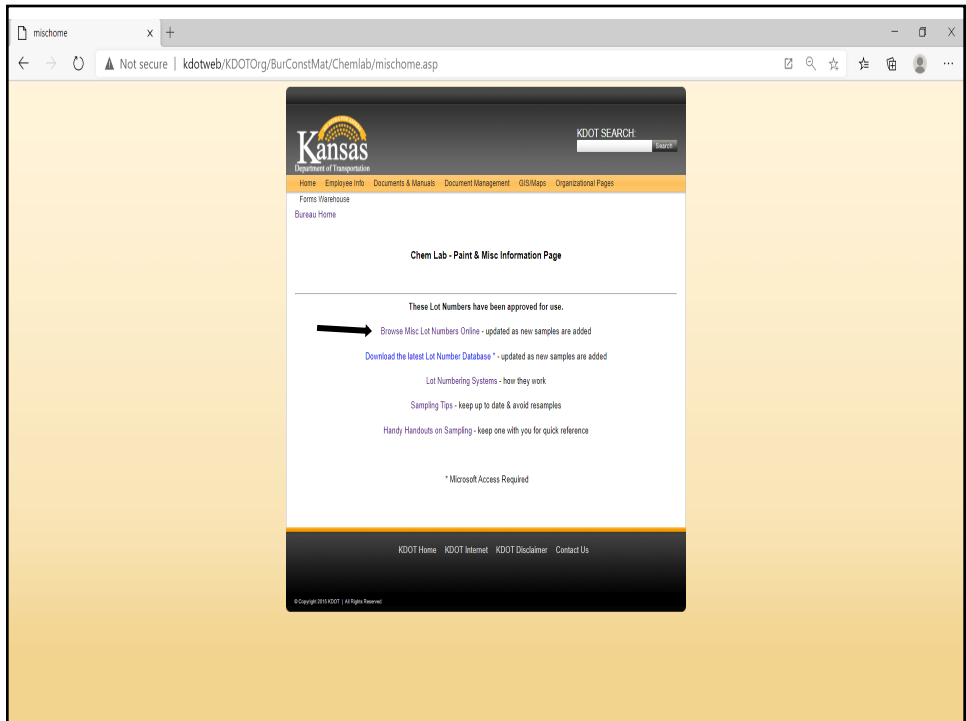
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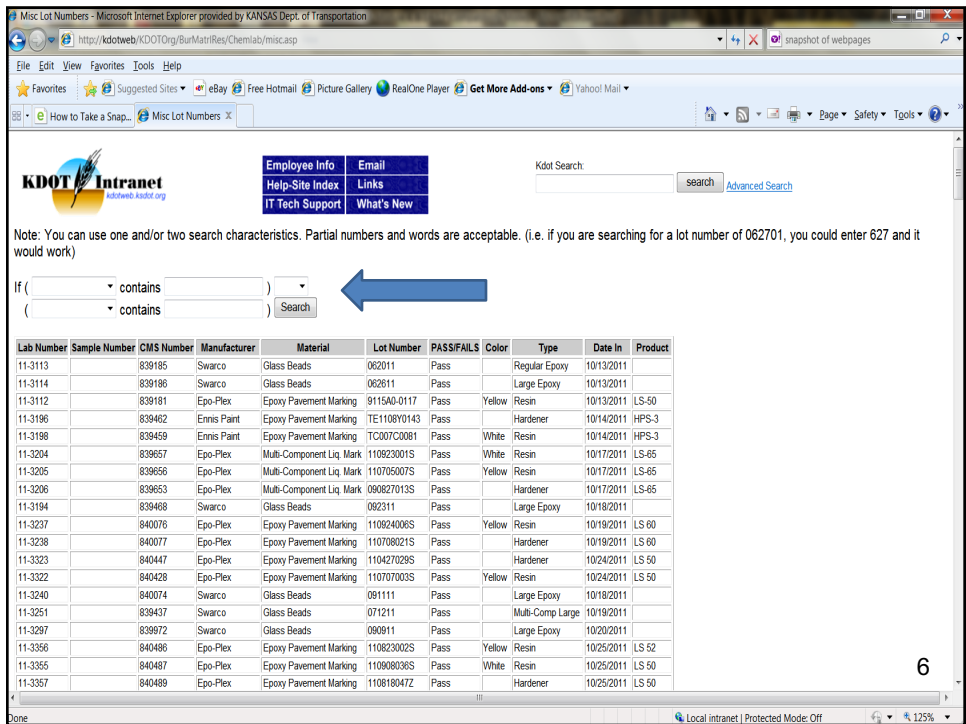
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Misc Lot Numbers - Microsoft Internet Explorer provided by KANSAS Dept. of Transportation

http://kdotweb/KDOTOrg/BurMatRes/Chemlab/misc.asp

Employee Info | Email
 Help-Site Index | Links
 IT Tech Support | What's New

Kdot Search: [Advanced Search](#)

Note: You can use one and/or two search characteristics. Partial numbers and words are acceptable. (i.e. if you are searching for a lot number of 062701, you could enter 627 and it would work)

If (contains)
 (contains)

Lab Number	Sample Number	CMS Number	Manufacturer	Material	Lot Number	PASS/FAILS	Color	Type	Date In	Product
11-3237		839185	Swarco	Glass Beads	062011	Pass		Regular Epoxy	10/13/2011	
11-3238		839186	Swarco	Glass Beads	062611	Pass		Large Epoxy	10/13/2011	
11-3323		839181	Epo-Plex	Epoxy Pavement Marking	911540-0117	Pass	Yellow	Resin	10/13/2011	LS-50
11-3322		839462	Ennis Paint	Epoxy Pavement Marking	TE1108Y0143	Pass		Hardener	10/14/2011	HPS-3
11-3240		839459	Ennis Paint	Epoxy Pavement Marking	TC007C0081	Pass	White	Resin	10/14/2011	HPS-3
11-3204		839657	Epo-Plex	Multi-Component Liq. Mark	110923001S	Pass	White	Resin	10/17/2011	LS-65
11-3205		839656	Epo-Plex	Multi-Component Liq. Mark	110705007S	Pass	Yellow	Resin	10/17/2011	LS-65
11-3206		839653	Epo-Plex	Multi-Component Liq. Mark	090827013S	Pass		Hardener	10/17/2011	LS-65
11-3194		839468	Swarco	Glass Beads	092311	Pass		Large Epoxy	10/18/2011	
11-3237		840076	Epo-Plex	Epoxy Pavement Marking	110924006S	Pass	Yellow	Resin	10/19/2011	LS 60
11-3238		840077	Epo-Plex	Epoxy Pavement Marking	110708021S	Pass		Hardener	10/19/2011	LS 60
11-3323		840447	Epo-Plex	Epoxy Pavement Marking	110427029S	Pass		Hardener	10/24/2011	LS 50
11-3322		840428	Epo-Plex	Epoxy Pavement Marking	110707003S	Pass	Yellow	Resin	10/24/2011	LS 50
11-3240		840074	Swarco	Glass Beads	091111	Pass		Large Epoxy	10/18/2011	
11-3251		839437	Swarco	Glass Beads	071211	Pass		Multi-Comp Large	10/19/2011	
11-3297		839972	Swarco	Glass Beads	090911	Pass		Large Epoxy	10/20/2011	
11-3356		840486	Epo-Plex	Epoxy Pavement Marking	110823002S	Pass	Yellow	Resin	10/25/2011	LS 52
11-3355		840487	Epo-Plex	Epoxy Pavement Marking	110908036S	Pass	White	Resin	10/25/2011	LS 50
11-3357		840489	Epo-Plex	Epoxy Pavement Marking	110818047Z	Pass		Hardener	10/25/2011	LS 50

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Note: You can use one and/or two search characteristics. Partial numbers and words are acceptable. (i.e. if you are searching for a lot number of 062701, you could enter 627 and it would work)

If (contains)
 (contains)

Lab Number	Sample Number	CMS Number	Manufacturer	Material	Lot Number	PASS/FAILS	Color	Type	Date In	Product
11-3113		839185	Swarco	Glass Beads	062011	Pass		Regular Epoxy	10/13/2011	
11-3114		839186	Swarco	Glass Beads	062611	Pass		Large Epoxy	10/13/2011	
11-3112		839181	Epo-Plex	Epoxy Pavement Marking	911540-0117	Pass	Yellow	Resin	10/13/2011	LS-50
11-3196		839462	Ennis Paint	Epoxy Pavement Marking	TE1108Y0143	Pass		Hardener	10/14/2011	HPS-3
11-3198		839459	Ennis Paint	Epoxy Pavement Marking	TC007C0081	Pass	White	Resin	10/14/2011	HPS-3
11-3204		839657	Epo-Plex	Multi-Component Liq. Mark	110923001S	Pass	White	Resin	10/17/2011	LS-65
11-3205		839656	Epo-Plex	Multi-Component Liq. Mark	110705007S	Pass	Yellow	Resin	10/17/2011	LS-65
11-3206		839653	Epo-Plex	Multi-Component Liq. Mark	090827013S	Pass		Hardener	10/17/2011	LS-65
11-3194		839468	Swarco	Glass Beads	092311	Pass		Large Epoxy	10/18/2011	
11-3237		840076	Epo-Plex	Epoxy Pavement Marking	110924006S	Pass	Yellow	Resin	10/19/2011	LS 60
11-3238		840077	Epo-Plex	Epoxy Pavement Marking	110708021S	Pass		Hardener	10/19/2011	LS 60
11-3323		840447	Epo-Plex	Epoxy Pavement Marking	110427029S	Pass		Hardener	10/24/2011	LS 50
11-3322		840428	Epo-Plex	Epoxy Pavement Marking	110707003S	Pass	Yellow	Resin	10/24/2011	LS 50
11-3240		840074	Swarco	Glass Beads	091111	Pass		Large Epoxy	10/18/2011	
11-3251		839437	Swarco	Glass Beads	071211	Pass		Multi-Comp Large	10/19/2011	
11-3297		839972	Swarco	Glass Beads	090911	Pass		Large Epoxy	10/20/2011	
11-3356		840486	Epo-Plex	Epoxy Pavement Marking	110823002S	Pass	Yellow	Resin	10/25/2011	LS 52
11-3355		840487	Epo-Plex	Epoxy Pavement Marking	110908036S	Pass	White	Resin	10/25/2011	LS 50
11-3357		840489	Epo-Plex	Epoxy Pavement Marking	110818047Z	Pass		Hardener	10/25/2011	LS 50

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Note: You can use one and/or two search characteristics. Partial numbers and words are acceptable. (i.e. if you are searching for a lot number of 062701, you could enter 627 and it would work)

If (contains)
 () contains Search

Lab Number	Sample Number	CMS Number	Manufacturer	Material	Lot Number	PASS/FAILS	Color	Type	Date In	Product
11-3113		839185	Swarco	Glass Beads	062011	Pass		Regular Epoxy	10/13/2011	
11-3114		839186	Swarco	Glass Beads	062611	Pass		Large Epoxy	10/13/2011	
11-3112		839181	Epo-Plex	Epoxy Pavement Marking	9115A0-0117	Pass	Yellow	Resin	10/13/2011	LS-50
11-3196		839462	Ernis Paint	Epoxy Pavement Marking	TE1108Y0143	Pass		Hardener	10/14/2011	HPS-3
11-3198		839459	Ernis Paint	Epoxy Pavement Marking	TC007C0081	Pass	White	Resin	10/14/2011	HPS-3
11-3204		839657	Epo-Plex	Multi-Component Liq. Mark	110923001S	Pass	White	Resin	10/17/2011	LS-65
11-3205		839656	Epo-Plex	Multi-Component Liq. Mark	110705007S	Pass	Yellow	Resin	10/17/2011	LS-65
11-3206		839653	Epo-Plex	Multi-Component Liq. Mark	090827013S	Pass		Hardener	10/17/2011	LS-65
11-3194		839468	Swarco	Glass Beads	092311	Pass		Large Epoxy	10/18/2011	
11-3237		840076	Epo-Plex	Epoxy Pavement Marking	110924006S	Pass	Yellow	Resin	10/19/2011	LS 60
11-3238		840077	Epo-Plex	Epoxy Pavement Marking	110708021S	Pass		Hardener	10/19/2011	LS 60
11-3323		840447	Epo-Plex	Epoxy Pavement Marking	110427029S	Pass		Hardener	10/24/2011	LS 50
11-3322		840428	Epo-Plex	Epoxy Pavement Marking	110707003S	Pass	Yellow	Resin	10/24/2011	LS 50
11-3240		840074	Swarco	Glass Beads	091111	Pass		Large Epoxy	10/18/2011	
11-3251		839437	Swarco	Glass Beads	071211	Pass		Multi-Comp Large	10/19/2011	
11-3297		839972	Swarco	Glass Beads	090911	Pass		Large Epoxy	10/20/2011	
11-3356		840496	Epo-Plex	Epoxy Pavement Marking	110823002S	Pass	Yellow	Resin	10/25/2011	LS 52
11-3355		840497	Epo-Plex	Epoxy Pavement Marking	110908036S	Pass	White	Resin	10/25/2011	LS 50
11-3357		840499	Epo-Plex	Epoxy Pavement Marking	110818047Z	Pass		Hardener	10/25/2011	LS 50

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Note: You can use one and/or two search characteristics. Partial numbers and words are acceptable. (i.e. if you are searching for a lot number of 062701, you could enter 627 and it would work)

If (contains)
 () contains and or Search

Lab Number	Sample Number	CMS Number	Manufacturer	Material	Lot Number	PASS/FAILS	Color	Type	Date In	Product
11-3113		839185	Swarco	Glass Beads	062011	Pass		Regular Epoxy	10/13/2011	
11-3114		839186	Swarco	Glass Beads	062611	Pass		Large Epoxy	10/13/2011	
11-3112		839181	Epo-Plex	Epoxy Pavement Marking	9115A0-0117	Pass	Yellow	Resin	10/13/2011	LS-50
11-3196		839462	Ernis Paint	Epoxy Pavement Marking	TE1108Y0143	Pass		Hardener	10/14/2011	HPS-3
11-3198		839459	Ernis Paint	Epoxy Pavement Marking	TC007C0081	Pass	White	Resin	10/14/2011	HPS-3
11-3204		839657	Epo-Plex	Multi-Component Liq. Mark	110923001S	Pass	White	Resin	10/17/2011	LS-65
11-3205		839656	Epo-Plex	Multi-Component Liq. Mark	110705007S	Pass	Yellow	Resin	10/17/2011	LS-65
11-3206		839653	Epo-Plex	Multi-Component Liq. Mark	090827013S	Pass		Hardener	10/17/2011	LS-65
11-3194		839468	Swarco	Glass Beads	092311	Pass		Large Epoxy	10/18/2011	
11-3237		840076	Epo-Plex	Epoxy Pavement Marking	110924006S	Pass	Yellow	Resin	10/19/2011	LS 60
11-3238		840077	Epo-Plex	Epoxy Pavement Marking	110708021S	Pass		Hardener	10/19/2011	LS 60
11-3323		840447	Epo-Plex	Epoxy Pavement Marking	110427029S	Pass		Hardener	10/24/2011	LS 50
11-3322		840428	Epo-Plex	Epoxy Pavement Marking	110707003S	Pass	Yellow	Resin	10/24/2011	LS 50
11-3240		840074	Swarco	Glass Beads	091111	Pass		Large Epoxy	10/18/2011	
11-3251		839437	Swarco	Glass Beads	071211	Pass		Multi-Comp Large	10/19/2011	
11-3297		839972	Swarco	Glass Beads	090911	Pass		Large Epoxy	10/20/2011	
11-3356		840496	Epo-Plex	Epoxy Pavement Marking	110823002S	Pass	Yellow	Resin	10/25/2011	LS 52
11-3355		840497	Epo-Plex	Epoxy Pavement Marking	110908036S	Pass	White	Resin	10/25/2011	LS 50
11-3357		840499	Epo-Plex	Epoxy Pavement Marking	110818047Z	Pass		Hardener	10/25/2011	LS 50

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Note: You can use one and/or two search characteristics. Partial numbers and words are acceptable. (i.e. if you are searching for a lot number of 062701, you could enter 627 and it would work)

If (contains) and (contains)

Lab Number	Sample Number	CMS Number	Manufacturer	Material	Lot Number	PASS/FAILS	Color	Type	Date In	Product
11-3113		839185	Swarco	Glass Beads	062011	Pass		Regular Epoxy	10/13/2011	
11-3114		839186	Swarco	Glass Beads	062611	Pass		Large Epoxy	10/13/2011	
11-3112		839181	Epo-Plex	Epoxy Pavement Marking	911540-0117	Pass	Yellow	Resin	10/13/2011	LS-50
11-3196		839462	Ennis Paint	Epoxy Pavement Marking	TE110810143	Pass		Hardener	10/14/2011	HPS-3
11-3198		839459	Ennis Paint	Epoxy Pavement Marking	TC007C0081	Pass	White	Resin	10/14/2011	HPS-3
11-3204		839657	Epo-Plex	Multi-Component Liq. Mark	110923001S	Pass	White	Resin	10/17/2011	LS-65
11-3205		839656	Epo-Plex	Multi-Component Liq. Mark	110705007S	Pass	Yellow	Resin	10/17/2011	LS-65
11-3206		839653	Epo-Plex	Multi-Component Liq. Mark	090827013S	Pass		Hardener	10/17/2011	LS-65
11-3194		839468	Swarco	Glass Beads	092311	Pass		Large Epoxy	10/18/2011	
11-3237		840076	Epo-Plex	Epoxy Pavement Marking	110924006S	Pass	Yellow	Resin	10/19/2011	LS 60
11-3238		840077	Epo-Plex	Epoxy Pavement Marking	110708021S	Pass		Hardener	10/19/2011	LS 60
11-3323		840447	Epo-Plex	Epoxy Pavement Marking	110427029S	Pass		Hardener	10/24/2011	LS 50
11-3322		840428	Epo-Plex	Epoxy Pavement Marking	110707003S	Pass	Yellow	Resin	10/24/2011	LS 50
11-3240		840074	Swarco	Glass Beads	091111	Pass		Large Epoxy	10/18/2011	
11-3251		839437	Swarco	Glass Beads	071211	Pass		Multi-Comp Large	10/19/2011	
11-3297		839972	Swarco	Glass Beads	090911	Pass		Large Epoxy	10/20/2011	
11-3356		840486	Epo-Plex	Epoxy Pavement Marking	110823002S	Pass	Yellow	Resin	10/25/2011	LS 52
11-3355		840487	Epo-Plex	Epoxy Pavement Marking	110908036S	Pass	White	Resin	10/25/2011	LS 50
11-3357		840489	Epo-Plex	Epoxy Pavement Marking	110818047Z	Pass		Hardener	10/25/2011	LS 50

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Note: You can use one and/or two search characteristics. Partial numbers and words are acceptable. (i.e. if you are searching for a lot number of 062701, you could enter 627 and it would work)

If (contains) and (contains)

Lab Number	Sample Number	CMS Number	Manufacturer	Material	Lot Number	PASS/FAILS	Color	Type	Date In	Product
11-3113		839185	Swarco	Glass Beads	062011	Pass		Regular Epoxy	10/13/2011	
11-3114		839186	Swarco	Glass Beads	062611	Pass		Large Epoxy	10/13/2011	
11-3112		839181	Epo-Plex	Epoxy Pavement Marking	911540-0117	Pass	Yellow	Resin	10/13/2011	LS-50
11-3196		839462	Ennis Paint	Epoxy Pavement Marking	TE110810143	Pass		Hardener	10/14/2011	HPS-3
11-3198		839459	Ennis Paint	Epoxy Pavement Marking	TC007C0081	Pass	White	Resin	10/14/2011	HPS-3
11-3204		839657	Epo-Plex	Multi-Component Liq. Mark	110923001S	Pass	White	Resin	10/17/2011	LS-65
11-3205		839656	Epo-Plex	Multi-Component Liq. Mark	110705007S	Pass	Yellow	Resin	10/17/2011	LS-65
11-3206		839653	Epo-Plex	Multi-Component Liq. Mark	090827013S	Pass		Hardener	10/17/2011	LS-65
11-3194		839468	Swarco	Glass Beads	092311	Pass		Large Epoxy	10/18/2011	
11-3237		840076	Epo-Plex	Epoxy Pavement Marking	110924006S	Pass	Yellow	Resin	10/19/2011	LS 60
11-3238		840077	Epo-Plex	Epoxy Pavement Marking	110708021S	Pass		Hardener	10/19/2011	LS 60
11-3323		840447	Epo-Plex	Epoxy Pavement Marking	110427029S	Pass		Hardener	10/24/2011	LS 50
11-3322		840428	Epo-Plex	Epoxy Pavement Marking	110707003S	Pass	Yellow	Resin	10/24/2011	LS 50
11-3240		840074	Swarco	Glass Beads	091111	Pass		Large Epoxy	10/18/2011	
11-3251		839437	Swarco	Glass Beads	071211	Pass		Multi-Comp Large	10/19/2011	
11-3297		839972	Swarco	Glass Beads	090911	Pass		Large Epoxy	10/20/2011	
11-3356		840486	Epo-Plex	Epoxy Pavement Marking	110823002S	Pass	Yellow	Resin	10/25/2011	LS 52
11-3355		840487	Epo-Plex	Epoxy Pavement Marking	110908036S	Pass	White	Resin	10/25/2011	LS 50
11-3357		840489	Epo-Plex	Epoxy Pavement Marking	110818047Z	Pass		Hardener	10/25/2011	LS 50

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Note: You can use one and/or two search characteristics. Partial numbers and words are acceptable. (i.e. if you are searching for a lot number of 062701, you could enter 627 and it would work)

If (Manufacturer contains Swarco) and
 (Lot Number contains) Search

Lab Number	Sample Number	CMS Number	Manufacturer	Material	Lot Number	PASS/FAILS	Color	Type	Date In	Product
11-3113		839185	Swarco	Glass Beads	062011	Pass		Regular Epoxy	10/13/2011	
11-3114		839186	Swarco	Glass Beads	062611	Pass		Large Epoxy	10/13/2011	
11-3112		839181	Epo-Plex	Epoxy Pavement Marking	9115A0-0117	Pass	Yellow	Resin	10/13/2011	LS-50
11-3196		839462	Ennis Paint	Epoxy Pavement Marking	TE1108Y0143	Pass		Hardener	10/14/2011	HPS-3
11-3198		839459	Ennis Paint	Epoxy Pavement Marking	TC007C0081	Pass	White	Resin	10/14/2011	HPS-3
11-3204		839657	Epo-Plex	Multi-Component Liq. Mark	110923001S	Pass	White	Resin	10/17/2011	LS-65
11-3205		839656	Epo-Plex	Multi-Component Liq. Mark	110705007S	Pass	Yellow	Resin	10/17/2011	LS-65
11-3206		839653	Epo-Plex	Multi-Component Liq. Mark	090827013S	Pass		Hardener	10/17/2011	LS-65
11-3194		839468	Swarco	Glass Beads	092311	Pass		Large Epoxy	10/18/2011	
11-3237		840076	Epo-Plex	Epoxy Pavement Marking	110924006S	Pass	Yellow	Resin	10/19/2011	LS 60
11-3238		840077	Epo-Plex	Epoxy Pavement Marking	110708021S	Pass		Hardener	10/19/2011	LS 60
11-3223		840447	Epo-Plex	Epoxy Pavement Marking	110427029S	Pass		Hardener	10/24/2011	LS 50
11-3222		840428	Epo-Plex	Epoxy Pavement Marking	110707003S	Pass	Yellow	Resin	10/24/2011	LS 50
11-3240		840074	Swarco	Glass Beads	091111	Pass		Large Epoxy	10/18/2011	
11-3251		839437	Swarco	Glass Beads	071211	Pass		Multi-Comp Large	10/19/2011	
11-3297		839972	Swarco	Glass Beads	090911	Pass		Large Epoxy	10/20/2011	
11-3256		840486	Epo-Plex	Epoxy Pavement Marking	110823002S	Pass	Yellow	Resin	10/25/2011	LS 52
11-3355		840487	Epo-Plex	Epoxy Pavement Marking	110908036S	Pass	White	Resin	10/25/2011	LS 50
11-3357		840489	Epo-Plex	Epoxy Pavement Marking	110818047Z	Pass		Hardener	10/25/2011	LS 50

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Note: You can use one and/or two search characteristics. Partial numbers and words are acceptable. (i.e. if you are searching for a lot number of 062701, you could enter 627 and it would work)

If (Manufacturer contains Swarco) and
 (Lot Number contains 082712) Search

Lab Number	Sample Number	CMS Number	Manufacturer	Material	Lot Number	PASS/FAILS	Color	Type	Date In	Product
12-2720		871554	Swarco	Glass Beads	061212	Pass		Regular Epoxy	8/22/2012	
12-1241		859837	Swarco	Glass Beads	031212	Pass		Large Epoxy	5/15/2012	
12-1278		860333	Swarco	Glass Beads	021912	Pass		Multi-Comp Large	6/15/2012	
12-1295		860973	Swarco	Glass Beads	042612	Pass		Multi-Comp Reg	5/17/2012	
12-1296		860978	Swarco	Glass Beads	041312	Pass		Multi-Comp Large	5/17/2012	
12-1451		861046	Swarco	Glass Beads	041212	Pass		Large Epoxy	5/31/2012	
12-1452		861049	Swarco	Glass Beads	021012	Pass		Regular Epoxy	5/31/2012	
12-1810		864937	Swarco	Glass Beads	041812	Pass		Large Epoxy	6/25/2012	
12-1823		864487	Swarco	Glass Beads	041912	Pass		Multi-Comp Reg	6/25/2012	
12-1824		864493	Swarco	Glass Beads	032312	Pass		Multi-Comp Large	6/25/2012	
12-1827		864577	Swarco	Glass Beads	050712	Pass		Regular Epoxy	6/25/2012	
11-3251		839437	Swarco	Glass Beads	071211	Pass		Multi-Comp Large	10/19/2011	
11-3435		841621	Swarco	Glass Beads	071211-B	Pass		Large Epoxy	11/1/2011	
12-1242		859844	Swarco	Glass Beads	041612	Pass		Regular Epoxy	5/15/2012	
12-1906		865746	Swarco	Glass Beads	012912	Pass		Large Epoxy	7/2/2012	
12-3374		876315	Swarco	Glass Beads	060712	Pass		Regular Epoxy	10/1/2012	
12-2721		871556	Swarco	Glass Beads	071012	Pass		Large Epoxy	8/22/2012	
12-3101		873892	Swarco	Glass Beads	081112	Pass		Regular Epoxy	9/17/2012	
12-3116		874842	Swarco	Glass Beads	021912	Pass		Large Epoxy	9/17/2012	

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Note: You can use one and/or two search characteristics. Partial numbers and words are acceptable. (i.e. if you are searching for a lot number of 062701, you could enter 627 and it would work)

If (Manufacturer) and
 (Lot Number) Search

Lab Number	Sample Number	CMS Number	Manufacturer	Material	Lot Number	PASS/FAILS	Color	Type	Date In	Product
12-3373		876318	Swarco	Glass Beads	082712	Pass		Large Epoxy	10/1/2012	
12-3386		876274	Swarco	Glass Beads	082712	Pass		Multi-Comp Reg	10/1/2012	

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*** As of 01-01-02, both materials that Passed and Failed are shown in the misc database.
 A new search feature has been added. Also made some other minor changes. ***

These Lot Numbers have been previously tested and may or may **NOT** be approved for use.

[Browse Misc Lot Numbers Online](#) - updated as new samples are added
[Download the latest Lot Number Database *](#) - updated as new samples are added
 [Lot Numbering Systems](#) - how they work
[Sampling Tips](#) - keep up to date & avoid resamples

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This is a list of manufacturer's materials, and how their lot numbering systems work - Microsoft Internet Explorer provided by

http://kdotweb/KDOTOrg/BurMatriRes/Chemlab/lotsystems.html

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Lot Numbering Systems

This is a list of some manufacturer's materials, and how their lot numbering systems work.

Manufacturer	Material	Lot Numbering System	Example
Avery-Dennison	Retroreflective Sheeting	16 characters The first 10 characters are required	4E14YP002509100A 4E14YP0025
3M	Retroreflective Sheeting	3 letters + 1 number or 5 numbers	BIR-3 or 3223-4
	Cold Plastic and Patterned Cold Plastic	3 letters + 1 number or 5 numbers	BIR-3 or 3223-4
	Durable Pavement Marking	3 letters + 1 number or 5 numbers	BIR-3 or 3223-4
Briteline	Cold Plastic	5 digits + 1 letter	09298A
	Thermoplastic	5 digits + 1 letter	09298A
Potters	Glass Beads	1, 2, 3 or 4 digits	5, 36, or 12-04
IPS	Epoxy Pavement Marking	A letter + 3 numbers + a letter (indicating color) + 3 numbers	T408W171 or T088Y120
Swarco	Glass Beads	6 numbers	066104
	Thermoplastic	EY or EW + 7 characters	EY0442297

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mischeme - Microsoft Internet Explorer provided by KANSAS Dept. of Transportation

http://kdotweb/KDOTOrg/BurMatriRes/Chemlab/mischeme.html


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Chem Lab - Paint & Misc Information Page

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