LABORATORY DATA PACKAGE

Number of pages in this package ____ **[** including additional pages ____ **]**
(Fill in when using printed copy as record)

CLIENT INFORMATION	
Company Name	Everkem Diversified Products Inc.
Address	120 Regent Dr. Winston Salem, NC, 60178 United States

AUDIT INFORMATION:				
Description of Tests	Per Standard No.	UL 267 Outline of Investigation	Edition/ Revision Date	Issue Number: 3 April 21, 2008
[X] Tests Conducted by[1] Eduardo Zavala				
[ ] UL Staff conducting or witnessing testing (WTDP, CTF Stage 1 or 2 only) **[ ]** UL Staff supervising UL Staff in training				
[]Authorized Signatory (CTDP, TPTDP, TCP, PPP, CTF Stage 3 or 4)				
	Printed Name		Signature. Include date for CTDP, TPTDP, TCP, PPP, CTF Stage 3 or 4	

TESTS TO BE CONDUCTED:			
Test No.	Done[3]	Test Name	**[ ]** Comments/Parameters **[ ]** Tests Conducted by[2] **[ ]** Link to separate data files[4]
	2023-11-06	TOTAL IMMERSION OF WIRES - TENSILE STRENGTH AND ELONGATION TESTS:	Eduardo Zavala
	2024-01-03	EXTENDED EXPOSURE OF WIRES IN CONDUIT TENSILE STRENGTH AND ELONGATION TESTS:	Eduardo Zavala
	2024-01-02	EXTENDED EXPOSURE OF WIRES IN CONDUIT - DIELECTRIC BREAKDOWN TEST:	Eduardo Zavala
	2023/10/30	CORROSION TEST:	Stephen Bartelt
	2023/10/10	DETERMINATION OF FREE ALKALI:	Jonathan Rojas
	2023/10/12 2023/10/27	DETERMINATION OF FATTY ACIDS:	Jonathan Rojas Jonathan Rojas
	2023/09/22	PH DETERMINATION	Jonathan Rojas

TESTS TO BE CONDUCTED:			
Test No.	Done[3]	Test Name	**[ ]** Comments/Parameters **[ ]** Tests Conducted by[2] **[ ]** Link to separate data files[4]
	2023/10/10	WEIGHT PER GALLON - BALTIMORE CUP	Jonathan Rojas
	2023/09/22	PERCENT NON-VOLATILE CONTENT:	Jonathan Rojas
		ETHYL ETHER EXTRACTION TEST:	

Instructions -
1 - When all tests are conducted by one person, name can be inserted here instead of including name on each page containing data.
2 - When test conducted by more than one person, name of person conducting the test can be inserted next to the test name instead of including name on each page containing data. Test dates may be recorded here instead of entering test dates on the individual datasheet pages.
3 - Use of this field is optional and may be employed differently. If used to include a date instead of entering the testing date on the individual datasheet pages, the date shall be the date the test was conducted.
4 - Link to separate data files for a test can be inserted here. The link must be to a server that is accessible to UL staff, that provides for backup, required retention periods and a path, including file name, that does not change and result in a broken link. Not applicable to DAP.

Special Instructions -

[ ] Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be recorded at the time the test is conducted.

Ambient Temperature, C	25 ± 10	Relative Humidity, %	< 75	Barometric Pressure, mBar	N/A

[ ] No general environmental conditions are specified in the Standard(s) or have been identified that could affect the test results or measurements.

RISK ANALYSIS RELATED TO TESTING PERFORMANCE:

The following types of risks have been identified. Take necessary precautions. This list is not all inclusive.

[ ] Electric shock	**[ ]** Radiation
[ ] Energy related hazards	**[ ]** Chemical hazards
[ ] Fire	**[ ]** Noise
[ ] Heat related hazards	**[ ]** Vibration
[ ] Mechanical	**[ ]** Other (Specify)__

Tested by: _____ Date _____

TEST LOCATION: (To be completed by Staff Conducting the Testing)					
[]UL or Affiliate	**[]**WTDP	**[]**CTDP	**[]**TPTDP	**[]**TCP	**[]**PPP
	[]CTF Stage 1	**[]**CTF Stage 2	**[]**CTF Stage 3	**[]**CTF Stage 4	
Company Name: UL, LLC					
Address: 333 Pfingsten Rd, Northbrook IL 60062					

TEST EQUIPMENT INFORMATION

[x] UL test equipment information is recorded on Meter Use.

[ ] UL test equipment information is recorded on <<insert location and local laboratory equipment system identification.>>

Inst. ID No.	Instrument Type	Test Number +, Test Title or Conditioning	Function /Range	Last Cal. Date	Next Cal. Date

+ - If Test Number is used, the Test Number must be identified on the data sheet pages or on the Data Sheet Package cover page.

The following additional information is required when using client's or rented equipment, or when a UL ID Number for an instrument number is not used. The Inst. ID No. below corresponds to the Inst. ID No. above.

Inst. ID No.	Make/Model/Serial Number/Asset No.

Tested by: _____ Date _____

TEST SAMPLE IDENTIFICATION:

The table below is provided to establish correlation of sample numbers to specific product related information. Refer to this table when a test identifies a test sample by "Sample No." only.

Sample Card No.	Date Received	[] Test No.+	Sample No.	Manufacturer, Product Identification and Ratings
6394208				EZ PULL WIRE PULLING COMPOUND

+ - If Test Number is used, the Test Number or Numbers the sample was used in must be identified on the data sheet pages or on the Data Sheet Package cover page.

[ ] Sampling Procedure -

[ ] This document contains data or information using color and if printed, should be printed in color to retain legibility and the information represented by the color.

Tested by: _____ Date _____

TOTAL IMMERSION OF WIRES - TENSILE STRENGTH AND ELONGATION TESTS:

METHOD

As described in Parts 6 & 9 of the UL267 Outline of Investigation (Issue No. 3, April 21, 2008).

U-shaped specimens of each of the four wires specified in Table 3.1 the UL267 Outline of Investigation are to be totally immersed in the wire-pulling compound for 30 days at a room temperature of 25 ±10°C (77 ± 18°F). The ends of each wire specimen are to extend above the surface of the wire-pulling compound. Upon removal, the wire specimens are to be wiped clean with a cloth and examined for changes in appearance. The wire specimens are to be allowed to dry for 96 hours at a room temperature of 25 ±10°C (77 ±18°F) before being tested for tensile strength and elongation as described in 9.1 and 9.2 of the UL267 Outline of Investigation.

The ultimate elongation and maximum tensile strength of the insulation are to be determined as described in the Reference Standard for Electrical Wires, Cables, and Flexible Cords, UL 1581. Where CP is over other material on the conductor, tubular specimens of the composite construction are to be tested (the underlying material is not to be buffed away).

The tensile and elongation values obtained from testing the specimens are not to be less than 70 percent of the values obtained using the untested specimens.

RESULTS

WIRE DESIGNATION – Type TW

	Physical Properties			
Exposure	Avg. Tens. Str. psi	% of Original	Average % Elongation	% of Original
As Rec'd	2936	-	268	-
30 day total immersion	2886	98.30	254	94.80

WIRE DESIGNATION – **[X]** Type THHN **[ ]** Type THWN

	Physical Properties			
Exposure	Avg. Tens. Str. psi	% of Original	Average % Elongation	% of Original
As Rec'd	3380	-	246	-
30 day total immersion	3420	101.2	250	101.626

Tested by: _____ Date _____

TOTAL IMMERSION OF WIRES - TENSILE STRENGTH AND ELONGATION TESTS: (CONT'D)

RESULTS

WIRE DESIGNATION – Type XHHW

	Physical Properties			
Exposure	Avg. Tens. Str. psi	% of Original	Average % Elongation	% of Original
As Rec'd	2782	-	421	-
30 day total immersion	2789	100.25	434	103.10

WIRE DESIGNATION – **[X]** Type RHW with a CP outer surface **[ ]** Type RHH with a CP outer surface

	Physical Properties			
Exposure	Avg. Tens. Str. psi	% of Original	Average % Elongation	% of Original
As Rec'd	2240	-	420	-
30 day total immersion	2389	106.65	450	107.14

NB - No breakdown.

[ ] Comments:

30-day total immersion: 23.28°c 52.4%RH 2023-10-2 10:00 am – 2023-11-1-2023 10:00 am
Room Ambient: 23.22°c 53.3%RH 2023-11-1-2023 10:00 am – 2023-11-06 7:00 am

Tested by: _____ Date _____

EXTENDED EXPOSURE OF WIRES IN CONDUIT TENSILE STRENGTH AND ELONGATION TESTS:

As described in Parts 7 & 9 of the UL267 Outline of Investigation (Issue No. 3, April 21, 2008).

Ten-foot lengths of each of the four wire types specified in Table 3.1 of the UL267 Outline of Investigation are to be pulled into individual 10-ft lengths of 1/2-inch EMT using the wire-pulling compound as a lubricant in accordance with the manufacturer's instructions. In addition, 10-ft lengths of each wire are to be pulled into 10-ft lengths of the 1/2-inch EMT without using the wire-pulling compound or any other lubricant. Each of the EMT-and-wire assemblies is to be sealed at each end with a cork. The assemblies are to be stored in a horizontal position at a temperature of 50.0 ±2.0°C (122.0 ±3.6°F). After 75 days, each cork is to be replaced with the smallest plug of glass wool that will cover the opening. Protective gloves and a dust mask are to be worn while handling the glass wool. After an additional 105 days (180 days total exposure), the wire samples are to be removed from the EMT and allowed to dry for 96 hours at a room temperature of 25 ±10°C (77 ±18°F) before being tested as described in Part 9 of the UL267 Outline of Investigation.

The tensile and elongation values obtained from testing the exposure-in-conduit specimens are not to be less than 70 percent of the values obtained using the untested specimens.

RESULTS

WIRE DESIGNATION – Type TW

Exposure	Physical Properties			
	Avg. Tens. Str. psi	% of Original	Average % Elongation	% of Original
As Rec'd	2936	-	268	-
30 Days in tubing with compound*	2953	100.58	277	103.36
30 Days in tubing without compound*	2898	98.71	275	102.61
90 Days in tubing with compound*	2928	99.73	263	98.13
90 Days in tubing without compound*	2944	100.27	271	101.12
180 Days in tubing with compound				
180 Days in tubing without compound				

Tested by: _____ Date _____

EXTENDED EXPOSURE OF WIRES IN CONDUIT - TENSILE STRENGTH AND ELONGATION TESTS: (CONT'D)

RESULTS

WIRE DESIGNATION – **[X]** Type THHN **[ ]** Type THWN

Exposure	Physical Properties			
	Avg. Tens. Str. psi	% of Original	Average % Elongation	% of Original
As Rec'd	3380	-	246	-
30 Days in tubing with compound*	3366	99.60	248	100.81
30 Days in tubing without compound*	3455	102.22	254	103.25
90 Days in tubing with compound*	3331	98.55	246	100.00
90 Days in tubing without compound*	3328	98.46	234	95.12
180 Days in tubing with compound				
180 Days in tubing without compound				

WIRE DESIGNATION – Type XHHW

Exposure	Physical Properties			
	Avg. Tens. Str. psi	% of Original	Average % Elongation	% of Original
As Rec'd	2782	-	421	-
30 Days in tubing with compound*	2775	99.75	459	109.03
30 Days in tubing without compound*	2775	99.75	460	109.26
90 Days in tubing with compound*	2822	101.44	469	111.40
90 Days in tubing without compound*	2812	101.08	464	100.21
180 Days in tubing with compound				
180 Days in tubing without compound				

Tested by: _____ Date _____

EXTENDED EXPOSURE OF WIRES IN CONDUIT - TENSILE STRENGTH AND ELONGATION TESTS: (CONT'D)

RESULTS

WIRE DESIGNATION – **[X]** Type RHW with a CP outer surface **[ ]** Type RHH with a CP outer surface

Exposure	Physical Properties			
	Avg. Tens. Str. psi	% of Original	Average % Elongation	% of Original
As Rec'd	2240	-	420	-
30 Days in tubing with compound*	2143	95.67	385	91.67
30 Days in tubing without compound*	2402	107.23	422	100.48
90 Days in tubing with compound*	3090	137.95	400	95.24
90 Days in tubing without compound*	2333	104.15	405	96.43
180 Days in tubing with compound				
180 Days in tubing without compound				

* - This testing is optional for the purpose of providing an advance indication of the effect of the compound on the wires prior to completion of the full 180 days of the exposure-in-conduit test.

NB - No breakdown.

[ ] Comments:

Tested by: _____ Date _____

EXTENDED EXPOSURE OF WIRES IN CONDUIT - DIELECTRIC BREAKDOWN TEST:

METHOD

As described in Parts 6 & 8 of the UL267 Outline of Investigation (Issue No. 3, April 21, 2008).

Ten-foot lengths of each of the four wire types specified in Table 3.1 of the UL267 Outline of Investigation are to be pulled into individual 10-ft lengths of 1/2-inch EMT using the wire-pulling compound as a lubricant in accordance with the manufacturer's instructions. In addition, 10-ft lengths of each wire are to be pulled into 10-ft lengths of the 1/2-inch EMT without using the wire-pulling compound or any other lubricant. Each of the EMT-and-wire assemblies is to be sealed at each end with a cork. The assemblies are to be stored in a horizontal position at a temperature of 50.0 ±2.0°C (122.0 ±3.6°F). After 75 days, each cork is to be replaced with the smallest plug of glass wool that will cover the opening. Protective gloves and a dust mask are to be worn while handling the glass wool. After an additional 105 days (180 days total exposure), the wire samples are to be removed from the EMT and allowed to dry for 96 hours at a room temperature of 25 ±10°C (77 ±18°F) before being tested as described in Part 8 of the UL267 Outline of Investigation.

The voltage at which breakdown occurs for the wires from the exposure-in-conduit and for wires freshly pulled through the 1/2-inch EMT using the compound shall be at least 50 percent of the breakdown voltage of the untested wires.

RESULTS

WIRE DESIGNATION – Type TW

Exposure	Dielectric Properties		
	1500 V for 1 min	Avg. Break-down, V	% of Original
As Rec'd	No Breakdown	13.1kv	-
30 Days in tubing with compound*	No Breakdown	13.6kv	103.82
30 Days in tubing without compound*	No Breakdown	14.8kv	112.98
90 Days in tubing with compound*	No Breakdown	18.8kv	143.51
90 Days in tubing without compound*	No Breakdown	25.2kv	192.36
180 Days in tubing with compound			
180 Days in tubing without compound			

Tested by: _____ Date _____

EXTENDED EXPOSURE OF WIRES IN CONDUIT - DIELECTRIC BREAKDOWN TEST: (CONT'D)

RESULTS

WIRE DESIGNATION – **[X]** Type THHN **[ ]** Type THWN

Exposure	Dielectric Properties		
	1500 V for 1 min	Avg. Break-down, V	% of Original
As Rec'd	No Breakdown	20.9kv	-
30 Days in tubing with compound*	No Breakdown	21.0kv	100.48
30 Days in tubing without compound*	No Breakdown	32.3kv	154.55
90 Days in tubing with compound*	No Breakdown	24.3kv	116.27
90 Days in tubing without compound*	No Breakdown	24.4kv	116.75
180 Days in tubing with compound			
180 Days in tubing without compound			

WIRE DESIGNATION – Type XHHW

Exposure	Dielectric Properties		
	1500 V for 1 min	Avg. Break-down, V	% of Original
As Rec'd	No Breakdown	29.7kv	-
30 Days in tubing with compound*	No Breakdown	35.8kv	120.54
30 Days in tubing without compound*	No Breakdown	22.4kv	75.42
90 Days in tubing with compound*	No Breakdown	29.6kv	99.66
90 Days in tubing without compound*	No Breakdown	33.9kv	114.14
180 Days in tubing with compound			
180 Days in tubing without compound			

Tested by: _____ Date _____

EXTENDED EXPOSURE OF WIRES IN CONDUIT - DIELECTRIC BREAKDOWN TEST: (CONT'D)

RESULTS

WIRE DESIGNATION – **[X]** Type RHW with a CP outer surface **[ ]** Type RHH with a CP outer surface

Exposure	Dielectric Properties		
	1500 V for 1 min	Avg. Break-down, V	% of Original
As Rec'd	No Breakdown	27.7kv	-
30 Days in tubing with compound*	No Breakdown	41.7kv	150.54
30 Days in tubing without compound*	No Breakdown	22.9kv	82.67
90 Days in tubing with compound*	No Breakdown	21.6kv	77.98
90 Days in tubing without compound*	No Breakdown	45.3kv	163.54
180 Days in tubing with compound			
180 Days in tubing without compound			

* - This testing is optional for the purpose of providing an advance indication of the effect of the compound on the wires prior to completion of the full 180 days of the exposure-in-conduit test.

NB - No breakdown.

[ ] Comments:

Tested by: _____ Date _____

CORROSION TEST:

METHOD

As described in Part 10 of the UL267 Outline of Investigation (Issue No. 3, April 21, 2008).

Two 9-inch lengths of the 1/2-inch EMT are to be sealed at one end with a rubber stopper. One of the lengths is to be filled 3/4 full with the wire-pulling compound and the other is to be filled 3/4 full with tap water. A rubber stopper pierced with a short length of capillary tubing is to be fit into the upper end of each length of EMT. The lengths are to be supported in a vertical position at a room temperature of 25 ±10°C (77 ± 18°F) for 30 days and then are to be unstoppered, rinsed with tap water, and cut in half lengthwise. A soft cloth can be used to remove the wire pulling compound from inside the filled tube after cutting if necessary. The zinc-coated inside surface of the EMT is not to show any evidence of corrosion.

RESULTS

The zinc-coated inside surface of the EMT **[**~~did~~**]** **[**did not**]** show evidence of corrosion.

[ ] Comments:

Exposure started 2023/9/30 @ 12:30 pm
Exposure ended 2023/10/30 @ 12:30 pm

Tested by: _____ Date _____

DETERMINATION OF FREE ALKALI:

METHOD

As described in Part 14 of the UL267 Outline of Investigation (Issue No. 3, April 21, 2008).

A 10-gram sample of the wire-pulling compound is to be digested in 200 ml of ethyl alcohol on a steam bath until the digestion appears to be complete. The solution is then to be titrated with 1.0 N sodium hydroxide using phenolphthalein as an indicator to determine the amount of free alkali in the sample.

The free alkali content of the wire-pulling compound is not specified. However, the compound may be described as "practically free of uncombined free alkali" only if the tested free alkali content is less than 5 percent.

RESULTS

The percent free alkali in the product was found to be ___0.2____ percent.

[X] Comments:

Trial: 1
Sample Weight: 10.1415 g
Phenolphthalein: 3 Drops
1.0 N Sodium Hydroxide: 0.4 mL

Trial: 2
Sample Weight: 10.0926 g
Phenolphthalein: 3 Drops
1.0 N Sodium Hydroxide: 0.4 mL

Observations: Solution was cloudy/a greyish color after preparation, and after the addition of phenolphthalein. As soon as 0.4 mL of 1.0 N NaOH was added, the color change occurred.

Compliance Criteria: <5%

Calculation: (0.4 mL/200 mL) * 100 = 0.2%

Tested by: _____ Date _____

DETERMINATION OF FATTY ACIDS:

METHOD

As described in Part 15 of the UL267 Outline of Investigation (Issue No. 3, April 21, 2008).

A 5-gram sample of the wire-pulling compound is to be dissolved in approximately 10 ml of hot distilled water. An excess of dilute sulfuric acid is to be added. The resulting solution is to be heated on a steam bath until the fatty acids float to the top. Paraffin weighing 10 grams is then to be added and the resulting mixture heated on a steam bath until a clean, oily layer forms at the top. The mixture is then to be cooled, thoroughly chilled, and the solid layer of paraffin and fatty acids removed to filter paper, dried over calcium chloride in a desiccator, and weighed. The gain in weight of the paraffin is to be taken as the weight of fatty acids in the sample.

The fatty acid content of the wire-pulling compound is not specified. However, the compound may be described as "practically free of fatty acid" only if the tested fatty acid content is less than 5 percent.

RESULTS

The percent fatty acids in the product was found to be ___5.4___ percent.

[X] Comments:

Trial 1
Sample Weight: 5.1598 g
Wax Weight: 10.0328 g
10% Sulfuric Acid Solution: 5 mL of H_2SO_4 into 45 mL of DI H_2O
Collected Sample of paraffin and fatty acids: 10.3432 g

%Fatty Acids : ((10.3432 – 10.0328)/(5.1598))* 100 = 6.0

Trial 2
Sample Weight: 5.1316 g
Wax Weight: 10.1882 g
10% Sulfuric Acid Solution: 5 mL of H_2SO_4 into 45 mL of DI H_2O
Collected Sample of paraffin and fatty acids: 10.4280 g

%Fatty Acids : ((10.4280 – 10.1882)/(5.1316))* 100 = 4.7

Average %Fatty Acids: (6.0 + 4.7)/2 = 5.4

Compliance Criteria: <5%

Tested by: _____ Date _____

DETERMINATION OF FATTY ACIDS:

METHOD

As described in Part 15 of the UL267 Outline of Investigation (Issue No. 3, April 21, 2008).

A 5-gram sample of the wire-pulling compound is to be dissolved in approximately 10 ml of hot distilled water. An excess of dilute sulfuric acid is to be added. The resulting solution is to be heated on a steam bath until the fatty acids float to the top. Paraffin weighing 10 grams is then to be added and the resulting mixture heated on a steam bath until a clean, oily layer forms at the top. The mixture is then to be cooled, thoroughly chilled, and the solid layer of paraffin and fatty acids removed to filter paper, dried over calcium chloride in a desiccator, and weighed. The gain in weight of the paraffin is to be taken as the weight of fatty acids in the sample.

The fatty acid content of the wire-pulling compound is not specified. However, the compound may be described as "practically free of fatty acid" only if the tested fatty acid content is less than 5 percent.

RESULTS

The percent fatty acids in the product was found to be ___3.8____ percent.

[X] Comments:

Trial 3
Sample Weight: 5.0493
Wax Weight: 10.0411
10% Sulfuric Acid Solution: 5 mL of H_2SO_4 into 45 mL of DI H_2O
Collected Sample of paraffin and fatty acids: 10.2538

%Fatty Acids : ((10.2538 - 10.0411)/5.0493)*100 = 4.2

Trial 4
Sample Weight: 5.1830
Wax Weight: 10.0506
10% Sulfuric Acid Solution: 5 mL of H_2SO_4 into 45 mL of DI H_2O
Collected Sample of paraffin and fatty acids: 10.2196

%Fatty Acids : ((10.2196 - 10.0506)/5.1830)*100 = 3.3

Average %Fatty Acids: (4.2 + 3.3)/2 = 3.8

Compliance Criteria: <5%

Tested by: _____ Date _____

PH DETERMINATION

METHOD

[X] UL267 OI Issue #3(2008-04-21), **[ ]** Other, Specify:
Part 16

[ ] As indicated for Proprietary Cleaning Fluids in Appendix Pages for UL 1017 Application Product Categories DMLW & IMSR.

The pH of the product was measured using a properly calibrated pH meter.

SAMPLE INFORMATION

Material Designation: EZ PULL WIRE PULLING COMPOUND Color:

Material Description:

RESULTS

Ambient Temperature, C:	23.33	Relative Humidity, %:	41.6

Calibration Buffer	pH
pH 4	4.01
pH 7	7.01
pH 10	10.03
Sample Reading No.	pH
1	7.88
2	7.86
3	7.89
Average pH	7.88

Validated Software ID No. 77434

Notes:

pH 4 – Offset 12 mV, Slope 98%
pH 7 – Offset 9 mV, Slope 100%
pH 10 – Offset 10 mV, Slope 98%

Sample Reading No. 1, 2, and 3 – Offset 10 mV, Slope 98%

Conformance Criteria:

Tested by: _____ Date _____

WEIGHT PER GALLON - BALTIMORE CUP

METHOD

[ ] UL1332, 5th Ed.(2020-05-19), App. A3	**[X]** UL267 OI Issue #3(2008-04-21), Part 19
[ ] As indicated for Proprietary Cleaning Fluids in Appendix Pages for UL-1017 Application Product Categories DMLW & IMSR.	**[ ]** Other, Specify:

If air bubbles become entrapped in the material during mixing, the sample is to be allowed to stand until the bubbles escape, and is then to be stirred gently by hand with a paint paddle before filling the Baltimore cup. The weight per gallon is to be determined with the sample at room temperature, approximately 25°C. The tared Baltimore cup is to be carefully filled to avoid entrapment of air. After filling, the cap is to be carefully placed on the cup and gradually pushed into place, allowing the excess material to escape through the hole in the cap. The overflow is to be wiped from the cup and the contents are to be weighed using the tare to compensate for the weight of the cup. The weight of the content of the Baltimore cup in grams is equal to the weight per gallon in pounds.

SAMPLE INFORMATION

Material Designation: EZ PULL WIRE PULLING COMPOUND Color:

Material Description:

RESULTS

Ambient Temperature, C:	23.22	Relative Humidity, %:	43.4

Item	Trial #1	Trial #2
Cup Number	34	34
Cup Tare (g)	56.0891	56.0925
Cup & Sample (g)	64.2833	63.9289
Sample Weight (g =lbs/gal)	8.1942	7.8364
Average Weight Per Gallon (lbs.)	8.0153	
Validated Software ID No. 77434		

Notes:

Tested by: _____ Date _____

PERCENT NON-VOLATILE CONTENT

METHOD

[ ] UL1332, 5th Ed.(2020-05-19), App. A4	**[ ]** UL267 OI Issue #3(2008-04-21), Part 18
[ ] Other, Specify:	

In a manner to avoid loss of volatile matter, approximately 5 grams of specimen are to be placed in dried weighed porcelain dishes. The dishes with the samples are to be placed on a steam bath overnight to remove the solvents and then placed in the oven at 105°C (221°F) for 24 hours, cooled in a desiccator, and weighed. The oven drying procedure is to be repeated until consecutive weight loss is 0.010 gram or less.

RESULTS

Sample information

Material Designation: EZ PULL WIRE PULLING COMPOUND Color: Yellow

Material Description: _____

Oven Conditioning Log

Temperature, °C	Start Date/Time	End Date/Time
105	2023/09/18 14:17	2023/09/19 14:17
105	2023/09/19 14:35	2023/09/20 14:35
105	2023/09/20 15:28	2023/09/21 15:28
105	2023/09/21 15:45	2023/09/22 15:45

Tested by: _____ Date _____

PERCENT NON-VOLATILE CONTENT (CONT'D):

Ambient Temperature, C:	23	Relative Humidity, %:	50

Item	Trial #1	Trial #2	Trial #3
Weight of Crucible (g)	0.9869	1.0016	1.0064
Weight of Crucible + Specimen (g)	6.1585	6.2869	6.5520
Weight of Initial Specimen (g)	5.1716	5.2853	5.5456
Weight of Crucible and Specimen (g)After 24Hrs@105°C	1.3384	1.3639	1.3894
Specimen Weight(g)After 24 Hrs@105°C	0.3515	0.3623	0.3830
Weight of Crucible and Specimen (g)After 48 Hrs@105°C	1.3247	1.3505	1.3763
Specimen Weight(g)After 48 Hrs@105°C	0.3378	0.3489	0.3699
Weight of Crucible and Specimen (g)After 72 Hrs@105°C*	1.3166	1.3233	1.3644
Specimen Weight(g)After 72 Hrs@105°C*	0.3297	0.3217	0.3580
Weight of Crucible and Specimen (g)After 96 Hrs@105°C*	[redacted]	1.3181	1.3590
Specimen Weight(g)After 96 Hrs@105°C*	NA	0.3165	0.3526
Weight of Crucible and Specimen (g)After 120 Hrs@105°C*	[redacted]		
Final Specimen Wt(g)After 120 Hrs@105°C*	NA	NA	NA
Percent Solids = [Final Wt.(g)/Initial Wt.(g)]x100	6.38	5.99	6.36
Average Percent Solids (%)		6.24	
*If specimen reaches constant weight before 120 hours test is discontinued.			
Validated Software ID No. 77434			

Notes:

Tested by: _____ Date _____

ETHYL ETHER EXTRACTION TEST:

METHOD

Weighed samples shall be placed in paper thimbles contained in glass syphon cups and extracted (by reflux method) for 24 h with ethyl ether. The paper thimbles shall then be dried on a steam bath for 24 h, heated for 1 hour at 105°C in an electric oven, cooled in a desiccator, and weighed. The percent ethyl ether extractable material is to be calculated from the weight of ethyl ether non-extractable material.

RESULTS

Sample ID:	EZ PULL WIRE PULLING COMPOUND	
Condition	Start Date/Time	End Date/Time
Ethyl Ether Extraction		
Steam Bath		
Oven, Temp. °C		
Desiccator		

Thimble		No. 1	No. 2
As received weight			
Weight of thimble with sample, g	A		
Weight of thimble, g	B		
Weight of sample, g	C=A-B		
After extraction and drying at 105°C			
Weight of thimble with residue, g	D		
Weight of ethyl ether non-extractable material (residue), g	E=D-B		
% of ethyl ether non-extractable (insoluble) material (residue)	F=100x(E/C)		
% of ethyl ether extractable (soluble) material	100-F		
Validated Software ID No. 77434			

Compliance Criteria:

1. The percent material extractable using ethyl ether shall not exceed the value noted in the Follow-Up Service Procedure.

Tested by: _____ Date _____

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