

RAW MATERIAL CHARACTERISTICS AND TESTING

Trade Name: Basic Silicate of Lead 45X Date 6/7/51 No. 6801
 Chemical Name: Silicate of Lead Card No. 1 Previous No. 68 A 1
 Composition Sub-Class: 6800-6809
 Usage (Name & No.): Semi Paste Paints Most Similar Classified No. _____
 Bulk 3.0 Gals./100 lbs. lbs./Gal. @ _____ ° Related Nos. 18 dry
 Expan. Coeff. 0.000 per °F Flash Pt. _____ °F (TOC) Storage Loss _____ Tanks _____ Drums

ROUTINE TESTS (Run on Each Shipment)					SECONDARY TESTS (Run Different One Each Shipment)				
TEST	MIN.	STD.	MAX.	METHOD	TEST	MIN.	STD.	MAX.	METHOD
Color	Equal to Std.				Lead Oxide		47.9%		
Texture					SiO ₂		47.9%		
					325M Res.		0.1%		410
					Oil Abs.		15		419.3
					SO ₃		4.2%		

N15815

0007-SWP-0048428

NAME OF SUPPLIER	SUPPLIERS CODE No. or NAME	Sample Report
National Lead Co.	45X Basic Lead Silicate	

General Description: (show chemical analysis if available)

Std. Sample Issue Date none Distributed by _____

Purchase Spec'n. Date none Reference Lab. A Prep'd. by _____

Replacing Spec'n. Date _____ Assignment Requested by P. B. Thompson

0007-SWP-0048429

RAW MATERIAL CHARACTERISTICS AND TESTING									
TRADE NAME: <u>Basic Silicate of Lead, 45X</u>					DATE: <u>7-15-53</u> NO. <u>6861</u>				
CHEMICAL NAME: <u>Silicate of Lead</u>					CARD NO. <u>2</u> PREVIOUS NO. <u>6801</u>				
USAGE (NAME & NO.): <u>Semi Paste Paints</u>					COMPOSITION SUB-CLASS: <u>6801</u>				
BULK: <u>3.0</u> GALS./100 LBS. LBS./GAL. <u>0</u>					MOST SIMILAR CLASSIFIED NO. <u>18</u>				
EXPAN. COEFF. 0.000 PER °F FLASH PT. <u>0</u>					°F (TOC) STORAGE LOSS <u>0</u> TANKS <u>0</u> DRUMS <u>0</u>				
ROUTINE TESTS (RUN ON EACH SHIPMENT)					SECONDARY TESTS (RUN DIFFERENT ONE EACH SHIPMENT)				
TEST	MIN.	STD.	MAX.	METHOD	TEST	MIN.	STD.	MAX.	METHOD
Color	Equal	to	Std.		Lead Oxide		47.9%		
Texture	"	"	"		SiO ₂		47.9%		
					325 M Res.		0.1%		410
					Oil Abs.		15		119.3
					SO ₃		4.2%		
					ZnO, %			0.0	709

N15815.01

0007-SWP-0048430

NAME OF SUPPLIER	SUPPLIERS CODE NO. OR NAME	SAMPLE REPORT
National Lead Co.	Basic Lead Silicate 45X, Black Grade	
GENERAL DESCRIPTION: (SHOW CHEMICAL ANALYSIS IF AVAILABLE)		
STD. SAMPLE ISSUE DATE DISTRIBUTED BY PURCHASE SPEC'N. DATE 7-15-53 REFERENCE LAB. A PREP'D. BY JEP REPLACING SPEC'N. DATE ASSIGNMENT REQUESTED BY P.B. Thompson		

0007-SWP-0048431

RAW MATERIAL CHARACTERISTICS AND TESTING									
TRADE NAME <u>Basic Silicate of Lead, 45X</u>					DATE <u>6-24-55</u> NO. <u>6801A</u>				
CHEMICAL NAME					CARD NO. <u>3</u> PREVIOUS NO.				
USAGE (NAME & NO.)					COMPOSITION SUB CLASS				
BULK <u>3.0</u> GALS./100 LBS. LBS./GAL. <u>1</u> °					MOST SIMILAR CLASSIFIED NO.				
EXPAN. COEFF. 0.000 PER °F FLASH PT.					RELATED NOS.				
EXF (TOC) STORAGE LOSS					TANKS DRUMS				
ROUTINE TESTS (RUN ON EACH SHIPMENT)					SECONDARY TESTS (RUN DIFFERENT ONE EACH SHIPMENT)				
TEST	MIN.	STD.	MAX.	METHOD	TEST	MIN.	STD.	MAX.	METHOD
Color	Equal	to std.	421.0		PbO, %	47.0	47.9	49.0	-
Texture	"	"	"		SiO ₂ , %				-
					325M, Res., %		0.1		410
					Oil Abs.	14.5	16	17.5	119.1
					SO ₃ , %	4.1	4.2	4.3	

N15815.02

0007-SWP-0048432

NAME OF SUPPLIER	SUPPLIERS CODE NO. OR NAME	SAMPLE REPORT
National Lead Co.	Basic Lead Silicate, 45X	

GENERAL DESCRIPTION: (SHOW CHEMICAL ANALYSIS IF AVAILABLE)

STD. SAMPLE ISSUE DATE 6-21-51 DISTRIBUTED BY Cleve. T. S.

PURCHASE SPEC. DATE 6-21-55 REFERENCE LAB. A PREP'D. BY WEP

REPLACING SPECIM. DATE 5-10-51 ASSIGNMENT REQUESTED BY

0007-SWP-0048433

68 01 00 RAW MATERIAL CHARACTERISTICS AND TESTING 68-01-00
 TRADE NAME Basic Silicate of Lead, 45X DATE 9-21-64 NO. 6801
 CHEMICAL NAME _____ CARD NO. 4 PREVIOUS NO. _____
 COMPOSITION SUB-CLASS: _____
 USAGE (NAME & NO.) _____ MOST SIMILAR CLASSIFIED NO. _____
 BULK 3 GALS./100 LBS. LBS./GAL. 9 ° ° RELATED NOS. _____
 EXPAN. COEFF. 0.000 PER °F FLASH PT. _____ °F (TOC) STORAGE LOSS _____ TANKS _____ DRUMS

ROUTINE TESTS (RUN ON EACH SHIPMENT)					SECONDARY TESTS (RUN DIFFERENT ONE EACH SHIPMENT)				
TEST	MIN.	STD.	MAX.	METHOD	TEST	MIN.	STD.	MAX.	METHOD
Color	Equal to Std.				PbO, %	46.0	47.5	49.0	-
Texture	"	"	"		SiO ₂ , %	46.0		49.0	-
					325M, Res., %		0.1	D185	
					Oil Abs.	14.0	16	18.0	D281
					SO ₃ , %	4.1	4.2	4.3	-
					Moisture Loss			0.20	D280

N15815.03

0007-SWP-0048434

NAME OF SUPPLIER	SUPPLIERS CODE NO. OR NAME	SAMPLE REFC
National Lead Co.	Basic Lead Silicate, 45X	

GENERAL DESCRIPTION: (SHOW CHEMICAL ANALYSIS IF AVAILABLE)

68 01 00

card revised to show suppliers new Spec.

STD. SAMPLE ISSUE DATE 6-21-51 DISTRIBUTED BY Cleveland Tech Service
 PURCHASE SPEC'N. DATE 6-24-55 REFERENCE LAB. A PREP'D. BY JAPawley
 REPLACING SPEC'N. DATE 5-10-54 ASSIGNMENT REQUESTED BY _____

0007-SWP-0048435

SPECIFICATION FOR PURCHASED MATERIAL

Material Basic Silicate White Lead

Date 3/12/70

Code 68 01 00

Supersedes Specification

General Description:

Date 9/21/64

Code 68 01 00

A White pigment designed for use in exterior paints.

CHARACTERISTICS	MIN.	STD.	MAX.	TEST METHOD
1. Specific Gravity	3.90	4.00	4.10	ASTM D 153
2. Oil Absorption G/100g	14	16	18	ASTM D 281
3. Color	Equal to Standard			ASTM D 332
4. Residue 325 Mesh %			0.1	ASTM D 185
5. Lead Monoxide (P60) %	46	47.5	49	Supplier's Method *
6. Silicon Dioxide (SiO ₂) %	46	47.5	49	Supplier's Method * or ASTM 718
7 Sulfur Trioxide (SO ₃)%	4	4.2	4.4	Supplier's Method *
8. Moisture (Loss at 105°C) %			2	ASTM D 280
9. Dispersability	Equal to Standard			ITM 421.4

* Test methods can be obtained from National Lead Company

SPECIAL TESTS AND/OR CHARACTERISTICS:

N15815.04

0007-SWP-0048436

Code 68 01 00

PRACTICAL REQUIREMENTS: The material shall remain constant in successive lots or shipments with respect to unspecified characteristics to the extent that the seller warrants that no known changes are to be made in raw materials or processing methods of this material without due notification of the buyer.

RAW MATERIAL CHARACTERISTICS AND ASSIGNMENT REQUEST FORM

INTRA COMPANY CONFIDENTIAL

This Side for S-W and Affiliated Company Personnel Only

68-01-00

Code

TRADE NAME Oncor 45X

3/12/70

Date

CHEMICAL NAME Basic Silicate White Lead

5

Card No.

6801

Prev. Code

SUPPLIERS (Primary)

CODE

FORMULATING PARAMETERS

National Lead Company

White Lead, Basic Silicate,
Oncor 45X

3.00

Gal. Cwt. @ 25° C

33.33

Lb. / Gal. @ 25° C

100

Wt. % NVM

100

Vol. % NVM

100

Wt. % Pig.

100

Vol. % Pig.

OTHER CHARACTERISTICS

HANDLING

Coeff. of Exp.

Shipping Containers 50 Lb. Bags Safety Label Codes No

TOC Flash

Age Limit None Protect from Freezing No Protect from Moisture Yes

Pt. ° F.

Flammable Material No Explosive Material No Hazardous Material Yes

Price Lb.

SAFETY PRECAUTIONS AND OTHER HANDLING INFORMATION

Contains Lead. Avoid Breathing Dust. Wash hands after use.

USES

Product Name Type or Rex E60 H C12Line Item Customer Specification X ExperimentalReason for Assignment or Revision To transfer to large card and assume controlSimilar Codes 68-03-20 Codes Which May Become OverstockAdvantages Over Similar Material stain Control

Nat. Lead Test

SPECIAL TESTS:

#5 Lead Monoxide

X126

#6 Silicon Dioxide

X127

#7 Sulfur Trioxide

X128

INSTRUCTIONS

0007-SWP-0048437

1. Fill out as completely as possible. Refer to Routine & Policy Bulletin No. 145.
2. Enumerate all tests on opposite side in consecutive order.

The following test numbers are to be run routinely. 1, 2, 3, 4, 9Tentative Reference Sample to be sent to Cleveland Tech. Service. Yes _____ No XPerson Requesting Assignment W. K. MorseDate 3/12/70Laboratory Coordinator Approving J. H. PielLab Chicago Forest Products

Received and Approved in Cleveland

By J. Tillman/E. GardinerDate 4-10-70

**THE SHERWIN-WILLIAMS Co.**

CORPORATE PURCHASING DEPT. • 101 PROSPECT AVE., N. W. • CLEVELAND, OHIO 44115

FORM 11955

SPECIFICATION FOR PURCHASED MATERIALCODE 68 01 00 DATE 7/10/73 CARD NO. 6 SUPERSEDES SPECIFICATION DATED 3/12/70

CHEMICAL NAME AND/OR DESCRIPTION

BASIC SILICATE WHITE LEAD

*void
4/12/79
and add*

QUALITY CONTROL

TEST	METHOD	MINIMUM	STANDARD	MAXIMUM
<u>NORMAL QUALITY LIMITS</u>				
1. Specific Gravity	ASTM D 153	3.90	4.00	4.10
2. Oil Absorption G/100g	ASTM D 281	14	16	18
3. Color	ASTM D 332	Equal to Standard		
4. Residue 325 Mesh	ASTM D 185	-	-	0.1%
5. Dispersability Grind Clean	ITM 421.4	5H 4H		
<u>TECHNICAL DATA</u>				
1. Lead Monoxide (PbO) %	Supplier's Method *	46	47.5	49
2. Silicon Dioxide (SiO ₂) %	Supplier's Method * or ASTM D 718	46	47.5	49
3. Sulfur Trioxide (SO ₃) %	Supplier's Method *	4	4.2	4.4
4. Moisture Loss at 105°C	ASTM D 280	-	-	2%

* Test Methods can be Obtained from National Lead Company

N15815.05

NORMAL QUALITY LIMITS AND CRITICAL QUALITY LIMITS WILL BE RUN ROUTINELY

SPECIAL TESTS AND/OR CHARACTERISTICS

0007-SWP-0048438

PRACTICAL REQUIREMENTS: The material shall remain constant in successive lots or shipments with respect to unspecified characteristics to the extent that the seller warrants that no known changes are to be made in raw materials or processing methods of this material without the notification of the buyer.

68 01 00

SHIPPING - HANDLING - STORAGE INFORMATION

FLASH PT. T.C.C. N/A °F	FLASH PT. T.C.C. N/A °F	LOWER EXPL. LIMIT BY VOL. N/A %	UPPER EXPL. LIMIT BY VOL. N/A %	FED. STD. 313 CODES ☒ HEALTH HAZARD ☐ FIRE HAZARD ☐ REACTIVITY ☐ SPECIFIC HAZARD None
PPM VALUE	TLV VALUE 0.2	LD50 SINGLE DOSE, MG/KG Unavailable	AGE LIMIT - MONTHS 36	PROTECT FROM ☐ HEAT ☐ FREEZING ☒ MOISTURE ☐ LIQ

COMPOSITION DATA

GALS/100 LBS. @ 77°F 3.00	LBS./GAL @ 77°F 33.33	NVM % BY WEIGHT 100	NVM % BY VOLUME 100
PIGMENT IDENTIFICATION Basic Lead Silicate		PIG'MT CODE-6 DIGIT 68 01 00	PIG'MT % BY WT. 100
VEHICLE IDENTIFICATION N/A		VEH. CODE-6 DIGIT N/A	VEH. NVM % BY WT. N/A
SOLVENTS(S) IDENTIFICATION N/A		SOL.(S) CODE-6 DIGIT N/A	SOL.(S) % BY WT. N/A

PHYSICAL DATA

BOILING PT. °F N/A	VAPOR PRES.(mm-Hg) N/A	VAPOR DEN. (AIR = 1) N/A	EVAPORATION RATE (ETHER = 1) (BUTYL ACETATES = 1) N/A	PH N/A
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AIR QUALITY

5 MAX. (OLEFINS) MAX. % BY VOL. N/A	8 MAX. (CS AROMATICS) MAX. % BY VOL. N/A	BRANCHED KETONES-MAX. % BY VOL. N/A	TOTAL NON-COMPLYING MAX. % BY VOL. N/A
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COMPLIES TO RULE 66

☒ YES ☐ NO

HEAVY METAL & WATER QUALITY DATA

MATERIAL	MAX. % BY WEIGHT	MAX. H2O SOL BY WEIGHT	MATERIAL	MAX. % BY WEIGHT	MAX. H2O SOL BY WEIGHT	MATERIAL	MAX. % BY WEIGHT	MAX. H2O SOL BY WEIGHT
ANTIMONY Sb			LEAD Pb	44.1		Silicon	23.0	.01
ARSENIC As			MANGANESE Mn			Sulfur	1.7	.001
AZIDE N3-1			MERCURY Hg					
BARIUM Ba			NICKEL Ni					
CADMIUM Cd			PHOSPHORUS P					
CHLORIDE Cl-1			SELENIUM Se					
CHROMIUM Cr-3			SILVER Ag					
CHROMIUM Cr-6			SULFIDE S-2					
COPPER Cu			THALLIUM T-1					
CYANIDE Cn-1			TIN Sn					
FLUORIDE F-1			ZINC Zn					
IRON Fe			OTHER					

PERSON REQUESTING ASSIGNMENT

WILLIAM K. MORSE/dj 7/10/73

DATE

7/10/73

LABORATORY COORDINATOR APPROVING

P. D. GALAYDA

LAB

Chicag
Chem. Ctg

RECEIVED AND APPROVED IN CLEVELAND BY

J. Tillman/ J. Woo

DATE

1/9/74

REASON FOR REVISION

to Up Date Specification

SUPPLIER

SUPPLIER'S CODE

National Lead Company

White Lead, Basic Silicate
Oncor 45X



Form 11955 6-78

SPECIFICATION FOR PURCHASED MATERIAL

CODE 68 01 00 DATE 1/12/79 CARD NO. 7 SUPERSEDES SPECIFICATION DATED 7/10/73

CHEMICAL NAME AND/OR DESCRIPTION

Basic Silicate White Lead
Oncor 45X

SHERWIN-WILLIAMS QUALITY CONTROL ACCEPTANCE TESTS

TEST	METHOD	MINIMUM	STANDARD	MAXIMUM
VOID PER CLASS CHAIRMAN, A. OGURCHAK NO CONSUMPTION				

N15815.06

0007-SWP-0048440

NORMAL QUALITY LIMITS AND CRITICAL QUALITY LIMITS WILL BE RUN

SPECIAL TESTS AND/OR CHARACTERISTICS

D. L. Brenner

Chicago Chem. Ctgs. Lab

J. D. Baldwin/ J. Woo

Cleveland Technical Center

PRACTICAL REQUIREMENTS: The material shall remain constant in successive lots or shipments with respect to unspecified characteristics to the extent that the Seller warrants that no known changes are to be made in physical or chemical properties of this material without due notification in writing to the Corporate Purchasing Department of The Sherwin-Williams Company.

68 01 00