Customer

| CODE NUMBER | 100 GALLON BATCH GALLONS | 100 GALLON BATCH POUNDS | % BY WEIGHT | MANUFACTURING INSTRUCTIONS |
|---|---|---|---|---|
| W-830 | 0.70 | 24.0 | | Formula not to be taken |
| A-200 | 1.92 | 28.0 | | from File |
| R-661 | 0.30 | 3.8 | | |
| E-118 | 0.20 | 3.0 | Premix | |
| S-213 | 0.22 | 1.5 | | |
| V-2283 | 77.00 | 585.2 | (13 Gallons in grind) | |
| S-340 | 18.20 | 118.3 | (13 Gallons in grind) | |
| E-396 | 0.42 | 5.8 | Add at first let-down. | |
| E-304 | 0.45 | 3.6 | | |
| E-392 | 0.50 | 3.6 | | |
| E-262 | 0.18 | 1.4 | | |
| Shade with 369 line bases. | | | | |
| DISCONTINUED | | | For 4 x 5 Mill - Make 300 Gallons. | |
| SEE Y9228 | | | For 5 x 6 Mill - Make 600 Gallons. | |
| Yield | x100.09 | 778.2 | | |

R.M. Cost FILMED 3/1/67

Mill Pebble Grind 7-8

NPVLA %Lead -1

| | | METHOD |
|---|---|---|
| Label Warning | 11-62 | |
| Wt./Gal. | 7.7# | 5-A-1 |
| Flash Pt. °F | 100° | Thee. |
| N.V.Wt. | 44.7% | Calc. |
| N.V.Vol. | 34.8% | Calc. |
| Visc. F.O. | 90-100" | 4-A-1 |
| Visc. Red. | | |
| Reducer S-340 | | Ratio |
| P.V.C. 8.3% | | pH |
| Color Blue | | Match New- Y-1246 dated July'66 |
| Gloss over 86 | | Method 9-A-1 |
| Strainer | | |
| Container | | |
| Application Brush F.B. Spray: (S-332) | | |
| Cure Air Dry: 3-4 hrs. Recoat: Overnight | | |
| Remarks Mill Charge - 129.3% | | |
| Formulator Southwick/Bednarik | | |
| Approved by S. Bowell | | |

N12085

GLD059504

Glidden Form 1109-1 (back) Printed in U.S.A. 4/66 C & R FORMULA

| CLASS | | | | | |
|---|---|---|---|---|---|
| CODES | | | | | |

DESCRIPTORS (20 spaces—limit)

Trade Name Jenelac Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes ☐ No ☒ Silicone Yes ☐ No ☒

Resins Soya Isophthalic Alkyd V-2283

Color Blue Gloss 60 Reading

For Use On

Resistance

Manufactured at Plant 1-2-3-12-14 2-16-67

Strained 5-8-11-16-17 2-16-67

Manufacturing Instructions or Remarks

T 30 12-6-66

Date 2/2/67 Formula No Z-1246-X

Product Jenelac Enamel

Rich Blue

Label Warning P31-62 NPVBA

ANALYSIS

| | |
|---|---|
| Pigment 7.1 | % |
| Vehicle 92.9 | % |
| 100.0 | |

Pigment

| | |
|---|---|
| Titanium Dioxide | 43.0# |
| Iron Blue | 50.5# |
| Zinc Oxide | 6.5# |
| | 100.0# |

Vehicle

| | |
|---|---|
| Soya Alkyd Resin | 40.5# |
| Mineral Spirits & Driers | 59.5# |
| | 100.0# |

NO CHANGE IN ANALYSIS

Z-1246 66#

GLD059505

Glidden Form 1109-I (back) Printed in U.S.A. 4/66 C & R FORMULA

CLASS
CODES

DESCRIPTORS (20 spaces-limit)

Trade Name Japalac Customer

Substrate and Treatment

End Use

Specifications

Royalty Yes ☐ No ☒ Silicone Yes ☐ No ☒

Resins · Soya Isophthalic Alkyd Y-891-A

Color Blue Gloss 86 minimum

For Use On

Resistance

Manufactured at Plants #1-2-4-12-14 8-1-66 #1

Stirred #1-2-4-12-14

Manufacturing Instructions or Remarks 11-17 8-1-66 #1

Columbus, Ohio, Ecuador 10-17-66 ③

Guatemala, Italy 10-12-66 ④

Date 7/25/66 Formula No. Y-1246-X

Product Japalac - Enamel - Rich Blue

Label Warning #11-62 HFVLA

ANALYSIS

| | |
|---|---|
| Pigment | 7.1 % |
| Vehicle | 92.9 % |
| | 100.0% |

Pigment

| | |
|---|---|
| Titanium Dioxide | 43.0% |
| Iron Blue | 50.1% |
| BON Toner | 6.9% |
| | 100.0% |

Sold in Spain, Switzerland, Panama, Peru, Honduras, Mexico, Venezuela 10-12-66 ②

Vehicle

Soya Alkyd Resin

| | |
|---|---|
| Mineral Spirits & Driers | 40.5% 59.5% |
| | 100.0% |

Released 1-4-67 ⑤

Y-1246 667

GLD059507

GLIDDEN 4804 PRINTED IN U.S.A. FRONT

# FORMULA RECORD

FORMULA NO. Y-1246-Y [illegible]

GOODS Japalac - Rich Blue

LABORATORY NO.

CONSISTENCY per #3

COST CLASS DATE 4/30/65

FOR USE ON Mfg. plants #1-2-4-~~8~~-11-12-14-~~[illegible]~~

STRAINER GRIND 7-8

CUSTOMER Less than 1% Lead

MILL Pebble WT. OR BE 7.7#

| CODE NUMBER | ONE GALLON BATCH PINTS | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| W-290 | | | | ( 0.58) | 20.0 | |
| BL-74 | | | | ( 1.57) | 23.5 | |
| R-227 | | | | ( 0.36) | 5.6 | |
| H-218) Premix | | | | ( 0.13) | 2.0 | |
| S-91 ) | | | | 0.15 | ( 1.0) | |
| | | | | | | |
| V-891 (15 gals. in grind) | | | | 75.5 | (573.5) | |
| S-43 ( 7 gals. in grind) | | | | 20.2 | (131.1) | |
| Grind to 7-8 | Grind, then add: | | | | | |
| M-333 | | | | ( 0.42) | 5.9 | |
| Grind 15 min. and add: | | | | | | |
| VM-524 | | | | 0.45 | ( 3.60) | |
| VM-816 | | | | 0.50 | ( 3.60) | |
| CH-359 | | | | 0.18 | ( 1.40) | |
| | | | | | | |
| Use 369 line for shading if needed. | | | | | | |
| | DISCONTINUED | | | | | |
| | SEE Y-1246 | | | | | |
| YIELD | | | | 100.04 | 771.2 | |

Standard formula taken from file. Not to be changed.

VISC. F. B. 90-100" TEMP. 77°F

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR Blue SHEEN Gloss

NON VOL 44.5% (Wt) FLASH PT. 100°F

BATCH FOR Y-1246

REDUCER S-43

THIN FOR BRUSHING F.B.

SPRAYING S-342 TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4 hours

A. D. TO RECOAT IN Overnight

REMARKS Changed to use V-290

PVC - 8.8%

NV by Vol. - 34.4%

Mill Charge - 24.7%

FORMULATOR J. E. Southwick

GLD059508

| COST | DATE | ANALYSIS | | CUSTOMERS Y-1246-V |
|---|---|---|---|---|
| | | PIGMENT 7.3 % | | Japalac - Rich Blue |
| | | VEHICLE 92.7 % | | |
| | | 100.0% | | 4/30/65 |
| | | PIGMENT | | |
| | | Titanium Dioxide | 40.7% | Warning No. 11-62 NPVLA |
| | | Iron Blue | 47.9% | |
| | | Bordeaux Red | 11.4% | Y Paint List 5-17-65 @ |
| | | | 100.0% | #1-2-4-5-8-11-12-14-15-16-17 |
| | | | | Formula shown corrected analysis |
| | | | | sent to #2-#30) 5-27-65 @ |
| | | | | #30 (Phoenix) 2-23-66 |
| | | VEHICLE | | |
| | | Soya Alkyd Resin | 40.1% | |
| | | Mineral Spirits & Driers | 59.9% | |
| | | | 100.0% | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | Y-1246 | 56# | |

GLD059509

GLIDDEN 469-H PRINTED IN U.S.A. FRONT

# FORMULA RECORD

GOODS: Japalac - Rich Blue

CONSISTENCY:

FOR USE ON: Mfg. plants #1-2-4-5-8-11-12-14-15-16-17

CUSTOMER: Less than 1% Lead

| CODE NUMBER | ONE GALLON BATCH PARTS | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| W-208 | | | | (0.62) | 21.0 | |
| RL-74 | | | | (1.57) | 23.5 | |
| R-227 | | | | (0.36) | 5.6 | |
| W-218 | Premix | | | (0.13) | 2.0 | |
| S-91 | | | | 0.15 | (1.0) | |
| V-891 | (1½ gals. in grind) | | | 75.5 | (574.00) | |
| S-43 | (7 gals. in grind) | | | 20.15 | (131.00) | |
| | Grind to 7-8 Grind - then add | | | | | |
| K-333 | | | | (0.42) | 5.9 | |
| | Grind 15 min. and add: | | | | | |
| VM-524 | Standard Formula | | | .45 | (3.6) | |
| VN-816 | Not to be taken | | | .50 | (3.6) | |
| CH-359 | from File | | | .18 | (1.4) | |
| | Use 369 line for shading if needed. | | | | | |
| | Standard formula. Not to be taken from file. | | | | | |
| YIELD | 100 GALS. | | | 100.03 | 772.2 | |

FORMULA NO. Y-1246-U

LABORATORY NO.

COST CLASS DATE 4/7/64

STRAINER GRIND 7-8

MILL Pebble WT. OR BE 7.72

IS AGITATOR REQUIRED

VISC. F. B. 90-100" TEMP. 77°F

VISC. REQ. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Gloss

NON VOL. FLASH PT. 100°F

MATCH FOR Y-1246

REDUCER S-43

THIN FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4 hours.

OK TO RECOAT IN Overnight

REMARKS: Changed for closer color.

N.V. by wt. 43.8%

PVC 7.9%

NV by Vol. 34.0%

FORMULATOR J. Southwick

GLD059510

| COST | DATE | ANALYSIS | | CUSTOMERS Y-1246-U |
|---|---|---|---|---|
| | | PIGMENT 6.74 % | | Japalac Enamel - Rich Blue |
| | | VEHICLE 93.26 % | | |
| | | 100.00% | | 4/7/64 |
| | | PIGMENT | | |
| | | Titanium Dioxide | 41.8% | Warning No. 11-Cr NFPA |
| | | Iron Blue | 47.0 | |
| | | Bordeaux Red | 11.2 | Y Enamel List 4-10-640 |
| | | | 100.0% | re 1-2-4-5-8-11-12-14-15-16-17 |
| | | | | Colombia 4-24-64 ② |
| | | | | Ecuador 4-27-64 ③ |
| | | VEHICLE | | Peru 5-5-64 " |
| | | Soya Alkyd Resin | 47% | |
| | | Mineral Spirits & Driers | 53% | Mexico 8-6-64 ③ |
| | | | 100% | |
| | | Guatemala 9-18-64 ③ | | Italy 8-19-64 " |
| | | Manila 12-1-64 (4) | | Sekida Japan 1-20-64 " |
| | | | | Costa Rica 8-24-64 " |
| | | | | Panama 8-26-64 " |
| | | Y-1246 | 47 | West Indies 9-4-64 " |

GLD059511

FORM 440-H PRINTED IN U.S.A. FRONT

# FORMULA RECORD

FORMULA NO. Y-1246-T BASE

GOODS Japalac -- Rich Blue

LABORATORY NO. Tallate Driers

CONSISTENCY

COST CLASS. DATE 7/24/62

FOR USE ON Mfg. at plants #2-8-16-17-1-4-5-11-12-14-15

STRAINER GRIND 7-8

CUSTOMER Less than 1% Lead

MILL Pebble WT. OR BE 7.6

IS AGITATOR REQUIRED

| CODE NUMBER | ONE GALLON BATCH PINTS | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| M-208 | | | | (.50) | 17.1 | |
| BL-74 | | | | (1.56) | 23.4 | |
| R-227 | | | | (.12) | 1.8 | |
| M-218) Premix | | | | (.13) | 2.0 | |
| S-91 ) | | | | .13 | (1.0 | |
| V-891 (15 gals. in grind) | | | | 76.0 | (578.0) | |
| S-43 ( 7 gals. in grind) | | | | 20.1 | (131.1) | |
| Grind to 7-8 and add: | | | | | | |
| M-333 | | | | (.42) | 5.9 | |
| Grind 15 min. | | | | | | |
| VM-524 | | | | .45 | (3.1) | |
| VM-816 | | | | .5 | (3.6) | |
| CH-359 | | | | .18 | (1.4) | |
| DISCONTINUED | | | | | | |
| SEE Y-1246-U | | | | | | |
| YIELD | | | | 100.15 | 768.1 | |

Standard Formula. Not to be taken from File

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4

A. O. TO RECOAT IN O.N.

REMARKS:

NV by Wt. 43.3%

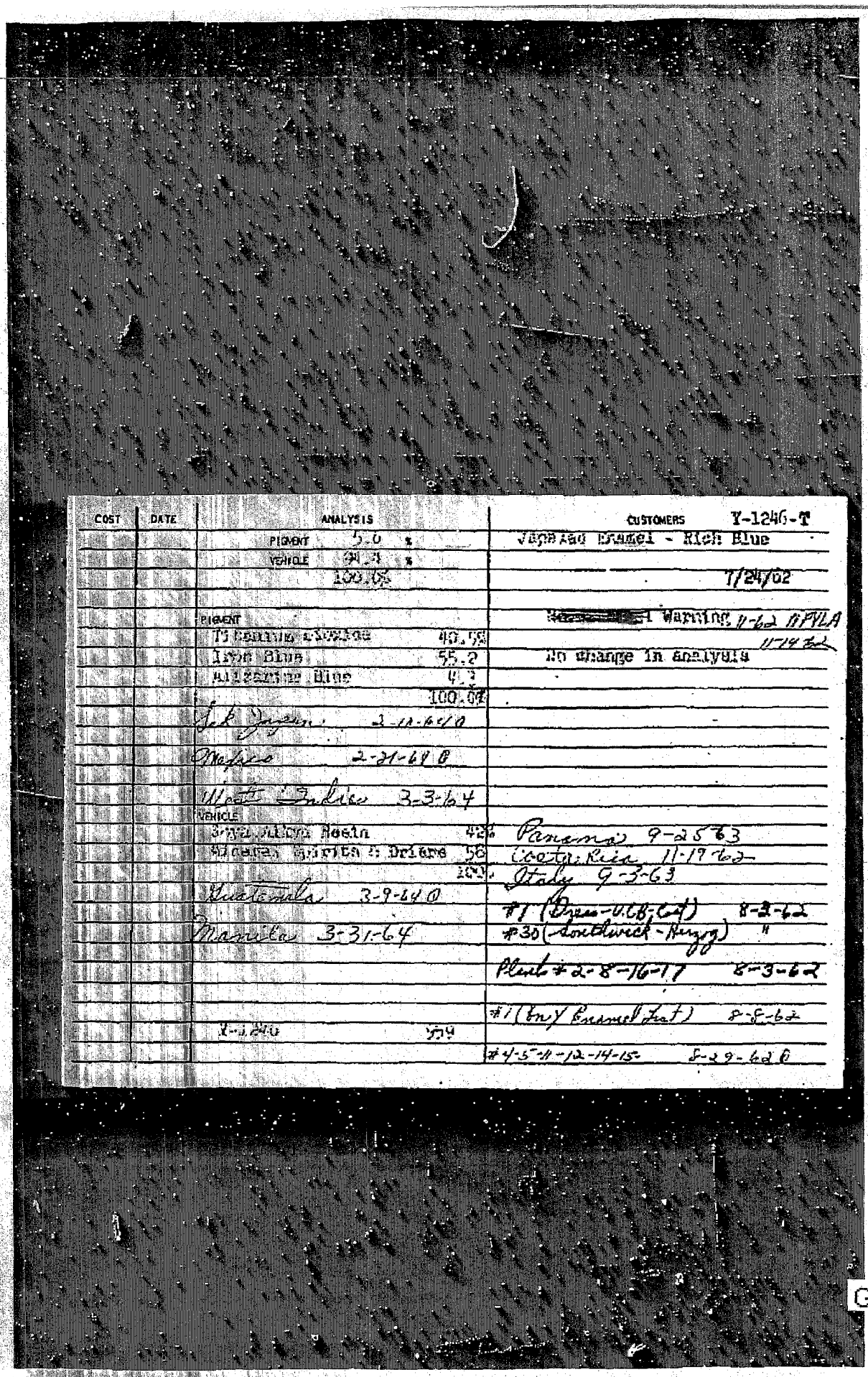
NV by Vol. 33.8%

PVC 6.8

Mill Base 24.4%

FORMULATOR J. E. Southwick

GLD059512



| COST | DATE | ANALYSIS | | CUSTOMERS Y-1246-T |
|---|---|---|---|---|
| | | PIGMENT 5.0 % | | Japan Export - Rich Blue |
| | | VEHICLE 95.0 % | | |
| | | 100.0% | | 7/24/02 |
| | | PIGMENT | | [redacted] Warning 11-62 NFPLA |
| | | TS Phthalo Blue | 40.5% | 11-14-62 |
| | | Iron Blue | 55.2 | No change in analysis |
| | | Ultramarine Blue | 4.3 | |
| | | | 100.0% | |
| | | J.K. Japan 2-12-64 C | | |
| | | Mexico 2-21-64 B | | |
| | | West Indies 3-3-64 | | |
| | | VEHICLE | | |
| | | 30% Alkyd Resin | 42% | Panama 9-25-63 |
| | | 40% Aliphatic Naphtha & Xylene | 58 | Costa Rica 11-19-63 |
| | | | 100% | Italy 9-3-63 |
| | | Guatemala 3-9-64 D | | #1 (Dyna-Glo-C4) 8-2-62 |
| | | Manila 3-31-64 | | #30 (Southwick - Hungry) " |
| | | | | Plant #2-8-16-17 8-3-62 |
| | | | | #1 (Envy Enamel flat) 8-8-62 |
| | | X-1240 | 5% | |
| | | | | #4-5-11-12-14-15 8-29-62 D |

GLD059513

GLIDDEN 480-H PRINTED IN U.S.A. FRONT

# FORMULA RECORD

GOODS: Japalac - Rich Blue X Lin. Coated

CONSISTENCY:

FOR USE ON: Mfg. at plants #1-2-4-12-14

CUSTOMER: Less than 1% Lead

FORMULA NO. Y-1246-T

LABORATORY NO.

COST CLASS. DATE 7/24/62

STRAINER GRIND 7-8

MILL Pebble WT. OR BE 7.6

| CODE NUMBER | ONE GALLON BATCH PINTS | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| W-208 | | | | .50 | 17.1 | |
| EL-74 | | | | 1.58 | 23.4 | |
| R-227 | | | | .12 | 1.8 | |
| W-218) Premix | | | | .13 | 2.0 | |
| S-91 ) | | | | .13 | (1.0) | |
| V-891 (15 gals. in grind) | | | | 76.0 | (578.0) | |
| S-43 ( 7 gals. in grind) | | | | 19.7 | (128.0) | |
| Grind to 7-8 and add: | | | | | | |
| M-333 | | | | .42 | 5.9 | |
| Grind 15 min. | | | | | | |
| D-83 | | | | .9 | 6.2 | |
| VM-816 | | | | .5 | 3.6 | |
| CH-359 | | | | .18 | 1.4 | |
| YIELD | | | | 100.15 | 768.1 | |

Standard Formula, Not to be taken from File.

IS AGITATOR REQUIRED

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Gloss

NON VOL. FLASH PT. 100 F

MATCH FOR Y-1246

REDUCER S-43

PUT FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4

O.K. TO RECOAT IN O.N.

REMARKS: Better gloss - less seeding.

NV by Wt. 43.3%

NV by Vol. 33.8%

PVC 6.8%

Mill Base 24.4%

FORMULATOR J. E. Southwick

GLD059514

| COST | DATE | ANALYSIS | CUSTOMERS |
|---|---|---|---|
| | | PIGMENT 5.6 % | Japalac Enamel - Rich Blue. |
| | | VEHICLE 94.4 % | |
| | | 100.0% | 7/24/62 |
| | | PIGMENT | No. 1 Label Warning |
| | | Titanium Dioxide 40.5% | |
| | | Iron Blue 55.2 | No change in analysis |
| | | Chlorine Blue 4.3 | |
| | | 100.0% | |
| | | | Our Y Enamel List 7-27-62 |
| | | | Blends # 1-2-4-12-14 |
| | | | Stamped |
| | | | # 5-8-11-15-16-17 |
| | | VEHICLE | |
| | | Nova Alkyd Resin 42% | |
| | | Mineral Spirits & Driers 58 | |
| | | 100% | |
| | | Y-1245 950 | |

GLD059515

FORMULA RECORD

FORMULA NO. Y-1246-S

CODE: Japalac Enamel - Aton Blue DISCONTINUED

CONSISTENCY

FOR USE ON

CUSTOMER: Less than 1% Lead SEE Y-1246-F

LABORATORY NO.

COST CLASS. DATE **7/10/61

STRAINER GRIND 7-8

MILL Pebble WT. OR BE 7.6

| CODE NUMBER | ONE GALLON BATCH PINTS | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| W-208 | | | | .50 | 17.1 | |
| BL-74 | | | | 1.56 | 23.4 | |
| R-227 | | | | .12 | 1.8 | |
| M-333 | | | | .42 | 5.9 | |
| CR-354 | | | | .19 | 1.4 | |
| V-891 (9 Gal. in grind) | | | | 81.0 | 615.0 | |
| S-43 (9 Gal. in grind) | | | | 14.6 | 95.2 | |
| D-83 | | | | .7 | 5.0 | |
| VM-432 | | | | .4 | 3.4 | |
| VM-523 | | | | .4 | 2.9 | |
| CH-359 | | | | .1 | 1.0 | |
| YIELD | | | | 99.99 | 772.1 | |

IS AGITATOR REQUIRED

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Gloss

NON VEL. FLASH PT.

MATCH FOR Y-1246

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4 hrs.

A. D. TO RECOAT IN Overnight

REMARKS:

**Reissued to eliminate VM-431.

21.5% Mill Base

FORMULATOR J. E. Southwick

GLD059516

| COST | DATE | ANALYSIS | | CUSTOMERS Y-1246-S |
|---|---|---|---|---|
| | | PIGMENT 5.6 % | | Japalac Enamel - Rich Blue |
| | | VEHICLE 94.4 % | | |
| | | 100.0% | | 7/10/61 |
| | | PIGMENT | | No. 2 Lacquer Machine |
| | | Titanium Dioxide | 40.5% | |
| | | Iron Blue | 55.2 | No change in analysis |
| | | Alizarine Blue | 4.3 | |
| | | | 100.0% | |
| | | | | #Y Enamel List 7-31-61 |
| | | | | Branches #1-2-4-5-12-14 |
| | | | | 8-11-17-15-# |
| | | VEHICLE | | Mexa (Tejas) 8-2-61 (#1) |
| | | Soya Alkyd Resin | 42% | |
| | | Mineral Spirits & Driers | 58 | [illegible] |
| | | | 100% | Costa Rica 6-11-62 |
| | | Y-1246 | 959 | |

GLD059517

GLIDDEN 480-H PRINTED IN U.S.A. FRONT

# FORMULA RECORD

FORMULA NO. Y-1246-S BASE

GOODS Japalac Enamel - Rich Blue

LABORATORY NO. (Atlanta Only)

CONSISTENCY

COST CLASS. DATE 5/16/61

FOR USE ON

STRAINER GRIND 7-8

CUSTOMER Less than 1% Lead)

MILL Pebble WT. OR BE 7.6

| CODE NUMBER | ONE GALLON BATCH PINTS | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| W-208 | | | | .50 | 17.1 | |
| BL-74 | | | | 1.56 | 23.4 | |
| R-227 | | | | .12 | 1.8 | |
| M-333 | | | | .42 | 5.9 | |
| CH-354 | | | | .19 | 1.4 | |
| V-891 (9 Gal. in grind) | | | | 81.0 | 615 | |
| S-43 (9 Gal. in grind) | | | | 14.6 | 95.2 | |
| VM-524 | | | | .35 | 2.8 | |
| VM-526 | | | | .4 | 3.4 | |
| VM-858 | | | | .4 | 2.9 | |
| CH-359 | | | | .1 | 1.0 | |
| YIELD | | | | 99.99 | 772.1 | |

Standard Formula, Not to be taken from File.

DISCONTINUED SEE

IS AGITATOR REQUIRED

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Gloss

NON VOL. FLASH PT.

MATCH FOR Y-1246

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4 hrs.

R. D. TO RECOAT IN Overnight

REMARKS:

21.5% Mill Base

FORMULATOR J.E. Southwick

GLD059518

| COST | DATE | ANALYSIS | CUSTOMERS |
|---|---|---|---|
| | | PIGMENT % | |
| | | VEHICLE % | #1 (Southwick - Herzog - TMS) 6/21/61 |
| | | | |
| | | PIGMENT | #8 (Houck-Atwood) 6/21/61 |
| | | | F 2 2-26-62 O |
| | | VEHICLE | |

GLD059519

FORMULA RECORD

FORMULA NO. Y-1246-S

GOODS Japalac Enamel - Rich Blue

CONSISTENCY

FOR USE ON THIS PRODUCTION MUST NOT CONTAIN LEAD

CUSTOMER (Less than 1% Lead)

LABORATORY NO.

COST CLASS. DATE 5/8/61

STRAINER GRIND 7-5

MILL Pebble WT. OR BE 7.6

AGITATOR REQUIRED

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

DISCOSIMETER #4 Ford Cup

COLOR SHEEN Gloss

WGT. VOL. FLASH PT.

MATCH FOR Y-1246 Panel

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4 hrs.

A. D. TO RECOAT IN O.N.

REMARKS: **Reissued to eliminate VM-431. Use Y-4105 √ Y-4133 Disc.

| CODE NUMBER | SMALL BATCH XXXXXX LBS. | LBS. | OZS. | GALS. | LARGE BATCH LBS. | |
|---|---|---|---|---|---|---|
| W-208 | | 225 | | 17.1 | | |
| GL-74 | | 307 | | 23.4 | | |
| R-227 | | 24 | | 1.8 | | |
| M-333 | | 77 | | 5.9 | | |
| GH-354 | | 19 | | 1.4 | | |
| V-891 | *1036 | 7872 | | 78.7 | 598.0 | *** |
| S-43 | *192 | 1251 | | 14.6 | 95.2 | *** |
| D-83 | 9.6 | 66 | | 0.7 | 5.0 | |
| VM-432 | 4.8 | 45 | | 0.4 | 3.4 | |
| VM-523 | 4.8 | 38 | | 0.4 | 2.9 | |
| CH-359 | 1.7 | 13 | | 0.2 | 1.0 | |
| *100 Gals. - Add in grind. | | | | | 9 Gals. | *** |
| *105 Gals. - Add in grind. | | | | | 9 Gals. | *** |
| YIELD | 1316 | 10,019 | | 100.0 | 761 | |

DISCONTINUED SEE

GLD059520

| COST | DATE | ANALYSIS | CUSTOMERS Y-1246-S |
|---|---|---|---|
| | | PIGMENT 5.6 % | Japalac Enamel - Rich Blue |
| | | VEHICLE 94.4 % | |
| | | 100.0% | 11/2/59 |
| | | PIGMENT | |
| | | Titanium Dioxide 40.5% | |
| | | Iron Blue 55.2 | |
| | | Alizarine Blue 4.3 | No. 1 Label Warning |
| | | 100.0% | |
| | | | No change in analysis |
| | | | Y Enamel Lot 5-11-61 |
| | | | Plant #1-2-4-5-12-14-8- 11 & 17 |
| | | VEHICLE | #15 (Manchu) 5-11-61 |
| | | Soya Alkyd Resin 42% | |
| | | Mineral Spirits & Driers 58 | #7 (Keating) 5-11-61 |
| | | 100.0% | Chile - Colombia - Ecuador - Guatemala |
| | | | Mexico - Peru - West Indies 6-22-61 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | Y-1246 959 | |

GLD059521

DUTCH BOY 460-H PRINTED IN U.S.A. FRONT

# FORMULA RECORD

FORMULA NO. Y-1246-S

GOODS Japalac Enamel - Rich Blue

CONSISTENCY

FOR USE ON THIS PRODUCTION MUST NOT CONTAIN LEAD (Less than 1% Lead)

CUSTOMER

LABORATORY NO.

COST CLASS. DATE **11/2/59

STRAINER GRIND 7-8

MILL Pebble WT. OR BE 7.6

AGITATOR REQUIRED

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Gloss

NON VOL. FLASH PT.

MATCH FOR Y-1246 Panel

| CODE NUMBER | Gal. BATCH OUNCES | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| V-208 | | 225 | | | 17.1 | |
| BL-74 | | 307 | | | 23.4 | |
| K-227 | | 24 | | | 1.8 | |
| M-333 | | 77 | | | 5.9 | |
| CH-354 | | 19 | | | 1.4 | |
| VM-431 | 9.6 | 77 | | 0.7 | 5.9 | |
| | | | | | | |
| V-891 | *1036 | 7872 | | 78.7 | 598.0 | *** |
| S-43 | * 192 | 1251 | | 14.6 | 95.2 | *** |
| | | | | | | |
| D-83 | 9.6 | 66 | | 0.7 | 5.0 | |
| VM-432 | 4.8 | 45 | | 0.4 | 3.4 | |
| VM-523 | 4.8 | 38 | | 0.4 | 2.9 | |
| CH-359 | 1.7 | 13 | | 0.1 | 1.0 | |
| | | | | | | |
| YIELD | 1316 | 10,015 | | 100.0 | 761 | |

REDUCER S-43

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4 hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

Changed to V-891

*100 Gals. - Add in grind. *** 9 Gals.

*105 Gals. - Add in grind. *** 9 Gals.

** DESTROY COPY DATED 9/28/59. Y-413 Discont Y-4108

FORMULATOR J.E. Southwick 20-12-12

GLD059522

| COST | DATE | ANALYSIS | | CUSTOMERS V-1246-S |
|---|---|---|---|---|
| | | PIGMENT 5.6 | % | Japalac Enamel - Rich Blue |
| | | VEHICLE 94.4 | % | |
| | | 100.0% | | 11/2/59 |
| | | PIGMENT | | |
| | | Titanium Dioxide | 40.5% | Y Enamel Lot 11-5-59 |
| | | Iron Blue | 55.2 | |
| | | Alizarine Blue | 4.3 | No. 1 Label Warning |
| | | | 100.0% | |
| | | | | No change in analysis |
| | | | | Marche (Portland) 11-5-59 |
| | | | | Keating (Tulsa) 11-5-59 |
| | | VEHICLE | | Phoenix (ALBM) 2-12-60 |
| | | Soya Alkyd Resin | 42% | Child " |
| | | Mineral Spirits & Driers | 58 | Apodaca " |
| | | | 100.0% | Cuba " |
| | | | | Ecuador " |
| | | | | Guatemala " |
| | | | | Peru " |
| | | | | Lund-Indus 2-12-60 |
| | | | | Jeff Morris 9-14-60 |
| | | Y-1246 | 959 | Buck (Nash) #7 1-25-61 |

GLD059523

FORM 0000-H PRINTED IN U.S.A. FRONT

# FORMULA RECORD

FORMULA NO. Y-1246-S

GOODS Japalac Enamel - Rich Blue

LABORATORY NO.

CONSISTENCY

COST CLASS. DATE 9/28/59

FOR USE ON THIS PRODUCTION MUST NOT CONTAIN LEAD

STRAINER GRIND 7-8

CUSTOMER (Less than 1% Lead)

MILL Pebble WT. OR BE 7.6

| CODE NUMBER | Gal. 5 GALLON BATCH GALS. | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| V-208 | | 225 | | | | |
| DV-74 | | 307 | | | | |
| P-227 | | 94 | | | | |
| N-333 | | 77 | | | | |
| CR-354 | | 19 | | | | |
| VM-431 | 9.6 | 77 | | | | |
| V-891 | 1036 | 7872 | (100 gals. Add in grind) | | | |
| S-13 | 192 | 1251 | (105 gals.-Add in grind) | | | |
| D-83 | 9.6 | 66 | | | | |
| VM-432 | 4.8 | 45 | | | | |
| VM-523 | 4.8 | 38 | | | | |
| CH-359 | 1.7 | 13 | | | | |
| YIELD | 1316 | 10,015 | | | | |

Standard Formula Not to be taken from file

IS AGITATOR REQUIRED

VISC. F.B. 90-100" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Gloss

NON VOL. FLASH PT.

MATCH FOR Y-1246 Panel

REDUCER 3-43

WT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 3-4 hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

Changed to V-891

FORMULATOR J.E. Southwick

30-12-12

GLD059524

| COST | DATE | ANALYSIS | | CUSTOMERS Y-1246-S |
|---|---|---|---|---|
| | | PIGMENT 5.6 | % | Japalac Enamel - Rich Blue |
| | | VEHICLE 94.4 | % | |
| | | 100.0% | | |
| | | | | 9/28/59 |
| | | PIGMENT | | |
| | | Titanium Dioxide | 40.5% | |
| | | Iron Blue | 55.2 | |
| | | Alizarine Blue | 4.3 | No. 1 Label Warning |
| | | | 100.0% | |
| | | | | Y Enamel Lot 10-15-59 |
| | | VEHICLE | | |
| | | Soya Alkyd Resin | 42% | |
| | | Mineral Spirits & Driers | 58 | |
| | | | 100.0% | |
| | | Y-1246 959 | | |

GLD059525

GLIDDEN 490-A PRINTED IN U.S.A. FROM

# FORMULA RECORD

GOOD Japalac Enamel - Rich Blue

CONSISTENCY

FOR USE ON 4-22-55

CUSTOMER

FORMULA NO. Y-1246-R

LABORATORY NO.

COST CLASS. DATE 1/26/55

STRAINER GRIND 7-A

MILL Pebble WT. OR BE 8.6#

| CODE NUMBER | ONE GALLON BATCH PINTS | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| W-170 | | | 2-3/4 | | | |
| BL-74 | | | 4 | | | |
| R-227 | | | 5/16 | | | |
| W-154 | | 1 | 2 | | | |
| K-333 | | | 1 | | | |
| CH-185 | | | 3/4 | | | |
| V-872 | 6-3/4 | | | | | |
| D-320 | 1/4 | | | | | |
| S-43 | 1 | | | | | |
| D-29 | | | 2 | Loz. | | |
| VM-530 | | | 1/2 | " | | |
| CH-269 | | | 1/8 | " | | |
| YIELD | 1.10 | | | | | |

Standard Formula. Not to be taken from File.

IS AGITATOR REQUIRED

VISC. F. R. 90-105" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Gloss

NON VOL. FLASH PT.

MATCH FOR Y-1246 Panel

REDUCER S-43

MAT. FOR BRUSHING FB

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN O.N.

REMARKS:

Changed to remove W-104

Also Y-4133

FORMULATOR J.E.S

OK PCH 28-8-7

GLD059526

| COST | DATE | ANALYSIS | | CUSTOMERS Y-1246-R |
|---|---|---|---|---|
| | | PIGMENT 16.5 % | | Japalac Enamel |
| | | VEHICLE 83.5 % | | Rich Blue |
| | | 100.0 % | | 1/26/55 |
| | | PIGMENT | | "Y" Trade Sales List 4-26-56 |
| | | Titanium Dioxide | 11.0% | Sales Lab |
| | | Iron Blue | 16.0 | Schuyler 7-10-56 |
| | | Alizarine Blue | 1.0 | Pender 2-16-57 |
| | | Calcium Carbonate | 72.0 | Pure 2-19-57 |
| | | | 100.0 % | Chi 5-6-57 |
| | | | | Schultz 4-29-57 |
| | | | | Duro 7-21-58 |
| | | VEHICLE | | Gen. Paint-Vit-A-Lac |
| | | Soya Alkyd-Rosin | 53.1% | 6-23-58 |
| | | Mineral Spirits & Driers | 46.9 | West Indies 11-11-58 |
| | | | 100.0 % | Guatemala 11-18-58 |
| | | Y-1246 551 | | |

GLD059527

FORBIDDEN AND PRINTED IN U.S.A. FRONT

# FORMULA RECORD

FORMULA NO. Y-1246-P

GOES Japalac - Rich Blue Enamel

LABORATORY NO.

CONSISTENCY Liquid

COST CLASS. DATE 8/20/53

FOR USE ON STRAINER GRIND 7-8

CUSTOMER MILL Pebble WT. OR BE 8.6#

| CODE NUMBER | ONE GALLON BATCH PINTS | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| W-170 | | | 2-3/4 | | | |
| BL-74 | | | 4 | | | |
| R-227 | | | 5/16 | | | |
| W-154 | | 1 | | | | |
| W-104 | | | 2 | | | |
| M-333 | | | 1 | | | |
| CH-185 | | | 3/4 | | | |
| V-872 | 6-3/4 | | | | | |
| O-320 | 1/4 | | | | | |
| S-43 | 1 | | | | | |
| D-29 | | | 2 | Loz. | | |
| D-75 | | | 2 | " | | |
| CH-269 | | | 1/8 | " | | |
| YIELD | 1.109 Gals. | | | | | |

Standard Formula. Not to be taken from File.

IS AGITATOR REQUIRED

VISC. F.O. 90-105" TEMP. 80°F

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR Blue SHEEN

NON VOL. FLASH PT.

MATCH FOR Y-1246 Porcelain

REDUCER S-43

ANT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN Overnite

REMARKS:

To replace W-69 with W-170.

FORMULATOR J.C. Walter

28-8-6

GLD059528

| COST | DATE | ANALYSIS | | CUSTOMERS Y-1246-P |
|---|---|---|---|---|
| | | PIGMENT 16.5 % | | Japalac Enamel |
| | | VEHICLE 83.5 % | | #Rich Blue |
| | | 100.0 % | | 8/20/53 |
| | | PIGMENT | | Y-Trade Sales Ltd 7-16-53 |
| | | Titanium Dioxide | 11.0% | Montreal Co Small (Ta) 8-25-53 |
| | | Iron Blue | 16.0 | Kenyon (3 cts for S.A.) 7-14-53 |
| | | Alizarine Blue | 1.0 | |
| | | Calcium Carbonate | 64.0 | |
| | | Basic Lead Carbonate | 8.0 | |
| | | | 100.0 % | |
| | | VEHICLE | | |
| | | Soya Alkyd | 53.1% | |
| | | Mineral Spirits & Driers | 46.9 | |
| | | | 100.0 % | |
| | | Y-1246 | 358 | |

GLD059529

FORMULA RECORD

FORMULA NO. Y-1246-R (Rdg.)

GLASS JAELAC ENAMEL — RICH BLUE

CONSISTENCY Liquid

FOR USE ON

CUSTOMER

LABORATORY NO.

COST CLASS. X DATE 11-12-57

STRAINER X GRIND 7-8

MILL Pebble WT. OR DC 8.6#

IS AGITATOR REQUIRED X

VISC. F.O. 90-105" TEMP. 80°F

VISC. RED. X TEMP. X

VISCOSIMETER #4 Ford Cup

COLOR X SHEEN Gloss

NON VOL. X FLASH Over 80

MATCH FOR New color chip

REDUCER S-43

AMT. FOR BRUSHING P.B.

SPRAYING X TUBLING X

DIPPING X DRIP TIME X

BAKE X TEMP. X

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN O/N

CATALYST

AMT. OF CATALYST

POT LIFE TEMP.

STABILITY AT 200°F.

STABILITY AT 135°F

STABILITY AT °F.

REMARKS

FORMULATOR JPHarner

| CODE NUMBER | ONE GALLON BATCH PINTS | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| V-170 | | | | | 15.8 | |
| BL-74 | | | | | 21.1 | |
| B-227 | | | | | 1.6 | |
| W-156 | | | | | 104 | |
| W-222 | | | | | 5.8 | |
| CH-185 | | | | | 4.3 | |
| V-872 | | | | 63.5 | | |
| O-320 | | | | 2.8 | | |
| B-43 | | | | 11.5 | | |
| 2-HB-564 | | | | 16.4 | | |
| D-29 | | | | 1.4 | | |
| YH-510 | | | | .36 | | |
| CH-243 | | | | .09 | | |
| YIELD | | | | 102.8 gals. | | |

GLD059530

| COST | DATE | ANALYSIS | CUSTOMERS |
|---|---|---|---|
| | | PIGMENT % | |
| | | VEHICLE % | |
| | | | |
| | | PIGMENT | |
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| | | VEHICLE | |
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CLIDDEN 480-H. PRINTED IN U.S.A.

# FORMULA RECORD

GOODS Jap-A-Lac Rich Blue Enamel

CONSISTENCY Liquid

FOR USE ON

CUSTOMER

FORMULA NO. Y-1246-N

LABORATORY NO.

COST CLASS. DATE 4/4/52

STRAINER GRIND 7-8

MILL Pebble WT. OR DC 9-1/2

| CODE NUMBER | ONE GALLON BATCH PINTS | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| W-170 | | | 3-1/8 | | | |
| BL-74 | | | 4-3/4 | | | |
| BL-78 | | | 7-3/4 | | | |
| W-154 | | 1 | 8 | | | |
| W-104 | | | 2 | | | |
| M-333 | | | 3/4 | | | |
| CH-185 | | | 1 | | | |
| | | | | | | |
| V-372 | 6-3/4 | | | | | |
| O-320 | 1/4 | | | | | |
| S-43 | 1 | | | | | |
| | | | | | | |
| D-29 | | | 2 | 1oz/gal. | | |
| D-75 | | | 2 | " " | | |
| CH-269 | | | 1/8 | " " | | |
| RL-8721 | | | 1/8 | " " | | |

Changed to replace V-357.

YIELD

Standard Formula Not to be taken from File

Standard Formula Active Discontinued Dec. 1957

IS AGITATOR REQUIRED

VISC. F.B. 90-105" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Gloss

NON VOL. FLASH PT. 100°F

MATCH FOR Y-1246 Porcelain

REDUCER

WT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN Overnight

REMARKS

FORMULATOR Southwick

25-8-4

GLD059532

| COST | DATE | ANALYSIS | | CUSTOMERS | |
|---|---|---|---|---|---|
| | | PIGMENT 24.8 % | | Ui Pigments | 9-9-52 |
| | | VEHICLE 75.2 % | | Atlanta (2) | 1-27-53 |
| | | 100.0 % | | | |
| | | PIGMENT | | | |
| | | Titanium Oxide | 7.5% | | |
| | | C.P. Iron Blue | 11.4 | | |
| | | Ultramarine Blue | 18.6 | | |
| | | Calcium Carbonate | 57.7 | | |
| | Basis | Lead Carbonate | 4.8 | | |
| | | | 100.0 % | | |
| | | VEHICLE | | | |
| | | Soya Alkyd | 53.1% | | |
| | | Mineral Spirits & Driers | 46.9 | | |
| | | | 100.0 % | | |
| | | Y-1246 | 254 | | |

GLD059533

FORM 480-11 PRINTED IN U.S.A.

# FORMULA RECORD

GOODS: Japalac-Rich Blue Enamel

CONSISTENCY

FOR USE ON

CUSTOMER

FORMULA NO. Y-1246-M

LABORATORY NO.

COST CLASS. DATE 2/25/52

STRAINER GRIND 7-8

MILL Pebble WT. OR PE 9#

| CODE NUMBER | ONE GALLON BATCH PINTS | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| W-170 | | | 3-1/8 | | | |
| BL-74 | | | 4-3/4 | | | |
| BL-78 | | | 7-3/4 | | | |
| W-154 | | 1 | 8 | | | |
| W-104 | | | 2 | | | |
| M-333 | | | 3/4 | | | |
| CH-185 | | | 1 | | | |
| V-872 | 3-1/2 | | | | | |
| Y-357 | 4-1/8 | | | | | |
| S-43 | 3/8 | | | | | |
| D-29 | | | 2 | 1oz/gal. | | |
| D-75 | | | 2 | " " | | |
| CH-269 | | | 1/8 | " " | | |
| RL-8721 | | | 1/8 | " " | | |

Changed to use BL-78 & W-170.

YIELD

Standard formula. Not to be taken from File.

IS AGITATOR REQUIRED

VISC. F.B. 90-105" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN

NON VOL. FLASH PT.

MATCH FOR Y-1246 Porcelain

REDUCER

AMT. FOR BRUSHING P.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN Overnight

REMARKS:

FORMULATOR Southwick HGH

25-8-4

GLD059534

| COST | DATE | ANALYSIS | | CUSTOMERS |
|---|---|---|---|---|
| | | PIGMENT | 24.8 % | All Plant 2-22-52 |
| | | VEHICLE | 75.2 % | |
| | | | 100.0 % | |
| | | PIGMENT | | |
| | | Titanium Oxide | 7.5% | |
| | | C.P. Iron Blue | 11.4 | |
| | | Ultramarine Blue | 18.6 | |
| | | Calcium Carbonate | 57.7 | |
| | Basic | Lead Carbonate | 4.8 | |
| | | | 100.0 % | |
| | | VEHICLE | | |
| | * | Varnish | 94.6% | |
| | | Mineral Spirits | 2.5 | |
| | | Liquid Drier | 2.9 | |
| | | | 100.0 % | |
| | *Non-Vol. | (Alkyd Resin, P.E. Ester Gum, Tung & Linseed Oils) | 54.6% | |
| | Volatile | (Mineral Spirits) | 45.4 | |
| | | | 100.0 % | |
| | | V-1245 | 252 | |

GLD059535

GLIDDEN 480-H PRINTED IN U.S.A. 7/50ST

FORMULA RECORD

GOODS Janalac Rich Blue Enamel — FORMULA NO. Y-1246-L

CONSISTENCY Liquid — LABORATORY NO.

FOR USE ON — COST CLASS. — DATE 11/12/51

CUSTOMER — STRAINER — GRIND 7-8

MILL — WT. OR BE 9-1/4#

| CODE NUMBER | ONE GALLON BATCH PINTS | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| W-69 | | 1 | 4 | | 100 | |
| BL-74 | | | 4 | | 20 | |
| R-227 | | | 5/16 | | 1 | 9 |
| W-154 | | 1 | | | 80 | |
| W-104 | | | 2 | | 10 | |
| M-333 | | | 1 | | 5 | |
| CH-185 | | | 3/4 | | 3 | 12 |
| V-872 | 3-1/2 | | | 35 | | |
| V-357 | 4-1/4 | | | 42-1/2 | | |
| S-43 | 1/4 | | | 2-1/2 | | |
| D-29 | | 2 Loz/gal. | | 1-1/4 | | |
| D-75 | | 2 " | " | 1-1/4 | | |
| CH-269 | | 1/8 " | " | | | 10 Loz |
| RL-8721 | | 1/8 " | " | | | 10 Loz |
| | Analysis Change | | | Standard Formula. Not to be taken from File. | | |
| YIELD | | | | | | |

IS AGITATOR REQUIRED

VISC. F.B. 100-110" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Ford Cup

COLOR SHEEN Gloss

NON VOL. FLASH PT.

MATCH FOR Y-1246 Porcelain

REDUCER

AMT. FOR BRUSHING F. B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN Overnite

REMARKS:

1

FORMULATOR Southwick H.C.H.

25-6-4

GLD059536

| COST | DATE | ANALYSIS | | CUSTOMERS Y-1246-L |
|---|---|---|---|---|
| | | PIGMENT 25.7 % | | Japaiac |
| | | VEHICLE 74.3 % | | 1246 Rich Blue |
| | | 100.0 % | | 11/12/51 |
| | | | | all Plants 12-4-57 |
| | | PIGMENT | | |
| | | Lithopone | 47.5 % | |
| | | C.P.Iron Blue | 9.4 | |
| | | Alizarine Lake | .3 | |
| | | Calcium Carbonate | 38.2 | |
| | | Basic Lead Carbonate | 4.6 | |
| | | | 100.0 % | |
| | | VEHICLE | | |
| | | * Varnish | 94.6 % | |
| | | Mineral Spirits | 2.5 | |
| | | Liquid Drier | 2.9 | |
| | | | 100.0 % | |
| | | * Non-Vol. (Alkyd Resin, P.E. Ester Gum, Tung, Linseed Oil) | 54.6 % | |
| | | Volatile (Mineral Spirits) | 45.4 | |
| | | | 100.0 % | |
| | | Y-1246 | 1511 | |

GLD059537

GLIDDEN 4804N PRINTED IN U.S.A. 12-50

GOODS Japalac Rich Blue Enamel — FORMULA RECORD

CONSISTENCY Liquid

FOR USE ON

CUSTOMER

FORMULA NO. Y-1246-K/

LABORATORY NO. 11/15/51

COST CLASS. DATE 2/20/51

STRAINER GRIND 7-8

MILL WT. OR BE 9-1/4#

| CODE NUMBER | ONE GALLON BATCH PINTS | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| W-69 | | 1 | 4 | | 100 | |
| BL-74 | | | 4 | | 20 | |
| R-227 | | | 5/16 | | 1 | 9 |
| W-154 | | 1 | | | 80 | |
| W-104 | | | 2 | | 10 | |
| M-333 | | | 1 | | 5 | |
| CH-185 | | | 3/4 | | 3 | 12 |
| V-872 | 8-1/2 | | | 35 | | |
| V-357 | 4-1/4 | | | 42-1/2 | | |
| S-43 | 1/4 | | | 2-1/2 | | |
| D-29 | | 2 Loz/gal | | 1-1/4 | | |
| D-75 | | 2 Loz/gal | | 1-1/4 | | |
| CH-243 (?) | | 1/8 Loz/gal | | | | 10 Loz |
| RL-8721 | | 1/2 " " | | | | 10. " |

(Discrepancy in color.)

(Back to "I" Formula with better match to color standard.

YIELD

IS AGITATOR REQUIRED

VISC. F.B. 100-110" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 Cup

COLOR SHEEN Gloss

NON VOL. FLASH PT.

MATCH FOR Y-1246 Porcelain

REDUCER

AMT. FOR BRUSHING P B

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 hrs.

A. D. TO RECOAT IN Overnite

REMARKS: 1/8 Oz/gal RL-8721 for silking when necessary.

FORMULATOR Southwick

25-6-4

GLD059538

| COST | DATE | ANALYSIS | | CUSTOMERS Y-1246K |
|---|---|---|---|---|
| | | PIGMENT 25.7 % | | |
| | | VEHICLE 74.3 % | | |
| | | 100.0% | | Yacht Coe |
| | | | | 1246 Red Base |
| | | PIGMENT | | |
| | | Lithopone | 47.5% | |
| | | C.P.Iron Blue | 9.4 | |
| | | Alizarine Lake | .2 | |
| | | Calcium Carbonate | 38.2 | |
| | | Basic Lead Carbonate | 4.6 | |
| | | | 100.0 % | |
| | | VEHICLE | | |
| | | Varnish | 94.6% | |
| | | Mineral Spirits | 2.5 | |
| | | Liquid Drier | 2.9 | |
| | | | 100.0 % | |
| | | Non Vol. 54.6% (Soya Oil Alkyd, Oiticica Oil, Linseed Oil, Estar Gum) | | |
| | | Vol. 45.4 (Mineral Spirits | | |
| | | 100.0% | | |
| | | Y/1246 152 | | |
| | | | | |

GLD059539

GLIDDEN 4810-H PRINTED IN U.S.A.

GOODS Japaline Rich Blue Enamel — FORMULA RECORD — FORMULA NO. Y-1246-J

CONSISTENCY Liquid — LABORATORY NO.

FOR USE ON — COST CLASS. — DATE 1/17/51

CUSTOMER — STRAINER — GRIND 7-8

MILL — WT. OR BE 9-1/2

| CODE NUMBER | ONE GALLON BATCH PINTS | LBS. | OZS. | LARGE BATCH GALS. | LBS. | OZS. |
|---|---|---|---|---|---|---|
| G-69 | | 1 | | | | |
| BL-74 | | | 3-5/8 | | | |
| BL-78 | | | 5-7/8 | | | |
| C-154 | | 1 | | | | |
| W-104 | | | 2 | | | |
| L-333 | | | 1 | | | |
| CH-185 | | | 1 | | | |
| V-872 | 3-1/2 | | | | | |
| V-357 | 4-1/4 | | | | | |
| S-43 | 1/4 | | | | | |
| D-29 | | 2 Loz/gal | | | | |
| D-75 | | 2 " | " | | | |
| CH-243 | | 1/8 " | " | | | |
| Reformulated for better color match. | | | | | | |
| YIELD | | | | | | |

Standard Formula to be taken from File.

IS AGITATOR REQUIRED

VISC. F.B. 100-110" TEMP.

VISC. RED. TEMP.

VISCOSIMETER #4 cup

COLOR SHEEN Gloss

NON VOL. FLASH PT.

MATCH FOR Y-1246 Porcelain

REDUCER

AMT. FOR BRUSHING F.B.

SPRAYING TUMBLING

DIPPING DRIP TIME

BAKE TEMP.

AIR DRIES IN 4-6 HRS

A. D. TO RECOAT IN Overnite

REMARKS:

1/8 oz/gal RL-8721 for silking when necessary

FORMULATOR Southwick

25-6-4

GLD059540

| COST | DATE | ANALYSIS | | CUSTOMERS |
|---|---|---|---|---|
| | | PIGMENT 25.5 % | | W. Clark 1-29-37 |
| | | VEHICLE 74.5 % | | |
| | | 100.0% | | |
| | | PIGMENT | | |
| | | Lithopone | 36.8 % | |
| | | C. P. Iron Blue | 8.3 % | |
| | | Ultramarine Blue | 13.5 % | |
| | | Calcium Carbonate | 36.8 % | |
| | | Basic Lead Carbonate | 4.6 % | |
| | | | 100.0 % | |
| | | VEHICLE | | |
| | * | Varnish | 94.5 % | |
| | | Mineral Spirits | 2.5 % | |
| | | Liquid Drier | 2.9 % | |
| | | | 100.0 % | |
| | * | Non Vol. 54.6 % (Soya oil Alkyd, Oiticica Oil, Linseed Oil) | | |
| | | Vol. 45.4 % (Mineral Spirits) | | |

GLD059541

480F 7031 4-40 Printed in U. S. A. L.P.

# FORMULA RECORD

Good Lapalac Rich Blue Enamel — Formula No. Y-1246-I

Consistency Liquid — Laboratory No.

For use on — Cost Class. — Date 6/1/49

Customer — Strainer — Grind 7-8

Mill Pebble — Wt. or Be 9-1/2#

| Code Number | One Gallon Batch Pints | Lbs. | Ozs. | Large Batch Gals. | Lbs. |
|---|---|---|---|---|---|
| W-69 | | 1 | 4 | | 100 |
| BL-74 | | | 4 | | 20 |
| W-154 | | 1 | | | 80 |
| R-227 | | | 3/16 | | 15 oz |
| W-104 | | | 2 | | 10 |
| M-333 | | | 1 | | 5 |
| CH-125 | | | 1/2 | | 2-1/2 |
| V-872 | 3-1/2 | | | 35 | |
| V-357 | 4-1/4 | | | 42-1/2 | |
| S-43 | 1/8 | | | 1-1/4 | |
| S-90 | 1/8 | | | 1-1/4 | |
| D-29 | | 2 Loz/gal | | 1-1/4 | |
| D-75 | | 2 " " " | | 1-1/4 | |
| CH-243 | | 1/8 " " " | | 10 oz | |

Changed to new quality using V-872

DISCONTINUED

SEE Y-1246-I

Yield

Is agitator required 9-1/2# Temp.

Viscosity 80"-90" Temp.

Viscosimeter #4 Cup

Color Blue Sheen

Non Vol. Flash Pt. 100-F

Match for Y-1246 Chip

Reducer

Amt. for brushing F.B

Spraying Tumbling

Dipping Drip time

Bake Temp.

Air dries in 4-6 hrs

A. D. to recont in Overnite

Remarks:

Standard Formula
Active
Discontinued
See
Formulator

GLD059542

| Cost | Date | Analysis | | Customers |
|---|---|---|---|---|
| | | Pigment 25.5 % | | |
| | | Vehicle 74.5 % | | |
| | | 100. 0 % | | |
| | | | | |
| | | Pigment | | |
| | | Lithopone | 47.6 % | |
| | | C.P. Iron Blue | 9.4 | |
| | | Alizarine Blue | .2 | |
| | | Calcium Carbonate | 38.2 | |
| | | Basic Lead Sulphate | 4.6 | |
| | | | 100.0 % | |
| | | | | |
| | | | | |
| | | Vehicle | | |
| | | | | |
| | # | Varnish | 94.6 % | |
| | | Mineral Spirits | 2.5 | |
| | | Liquid Drier | 2.9 | |
| | | | 100.0 % | |
| | | | | |
| | # | ~~Non Vol~~ ~~54.6%~~ | | |

GLD059543

488-D SOM 4-1. PRINTED IN U. S. A. (8)

# FORMULA RECORD

Goods Japalac Enamel Rich Blue — Formula No. Y1246 H

Consistency Liquid — Date 6-18-47 — Laboratory No.

For Use on — Cost Classification

| Code Number | One Gallon Batch Pints | Lbs. | Ozs. | Gallon Batch Gals. | Lbs. | Ozs. | Gallon Batch Gals. | Lbs. | Ozs. |
|---|---|---|---|---|---|---|---|---|---|
| W-69 | | 1 | 4 | | | | | 100 | |
| W-1 | | | 2 | | | | | 10 | |
| W-154 | | 1 | | | | | | 80 | |
| GL-74 | | | 4 | | | | | 20 | |
| R-227 | | | Y16 | | | | | | 5 |
| V-858 | 5 | | | | | | 50 | | |
| V119 | 1/4 | | | | | | 12½ | | |
| V-159 | 1/4 | | | | | | 12½ | | |
| S-43 | 1/2 | | | | | | 5 | | |
| D28 | | | 2 Lg | | | | 1¼ | | |
| D29 | | | 2 Sm | | | | 1¼ | | |
| Yield | | | | | | | | | |

Manufacturing Specifications

Grind 7-8 Rolls or Pebble

Kind of Mill

Strainer

Weight per Gallon 9.3#

Light Baume Temp.

Heavy Baume Temp.

Viscosity 80-90 Temp.

Viscosimeter #4 Ford Cup

Flash Point

Is Agitator Required

Remarks Match Std. Color per Sample Y1246

Standard Formula. Not to be taken from File.

Standard Formula Active

Discontinued 2-4-48

See Y1246-H

J. Johnston

GLD059544

| Characteristics and Method of Using | Cost Data | Customers |
|---|---|---|
| Type of Goods | | |
| Color | | |
| Luster | | |
| Match for | | |
| | | |
| Kind of Reducer | | |
| Amount of Reduction for | Pigment 25.5 | All plants 6-3047 |
| Brushing | Vehicle 74.5 | |
| Spraying Pressure | 100.0 | |
| Dipping Drip Time | Analysis | |
| Flocoing Drip Time | Pigment | |
| Tumbling | Lithopone 17.60 | |
| Air dry to recoat | CP Iron Blue 9.50 | |
| To Sand or Rub | Alizarine Lake 0.15 | |
| Bake Time Temp. | Calcium Carbonate 38.05 | |
| Rub with | Basic Lead Sulphate 4.70 | |
| Polish with | 100.0 | |
| Schedule | Vehicle | |
| | X Varnish 91.7 X % Vol 51.35% | |
| | Mineral Spirits 5.3 | |
| | Liquid Drier 3.0 | |
| | 100.0 | |
| | | |
| | | |

GLD059545

250-D 50M 10-46 PRINTED IN U.S.A. (B)

# FORMULA RECORD

Goods Japalac Rich Blue Enamel Formula No. Temp-Y1246-H

Consistency Liquid Date 2-4-48 Laboratory No.

For Use on Cost Classification

| Code Number | One Gallon Batch Pints | Lbs. | Ozs. | Gallon Batch Gals. | Lbs. | Ozs. | Gallon Batch Gals. | Lbs. | Ozs. |
|---|---|---|---|---|---|---|---|---|---|
| W-69 | | 1 | 4 | | | | | | |
| BL-74 | | | 4 | | | | | | |
| W-154 | | 1 | | | | | | | |
| R-227 | | | 1/16 | | | | | | |
| W-104 | | | 2 | | | | | | |
| D65A Duraplex or 1240 Oroplex | | 3 3/16 | | | | | | | |
| V-357 | | 4 1/4 | | | | | | | |
| S-43 | | 1/2 | | | | | | | |
| D-44 | | | 2 Lozs/gal | | | | | | |
| D-29 | | | 2 " " | | | | | | |
| Yield | Formula to be | | | | | | | | |

DISCONTINUED
SEE Y-1246-J 6/1/49
Standard Formula
Not to be taken
from File.

Manufacturing Specifications

Grind 7-8 Pebble
Kind of Mill
Strainer
Weight per Gallon 9.3#
Light Baume Temp.
Heavy Baume Temp.
Viscosity 80-90" Temp.
Viscosimeter 4 Cups
Flash Point
Is Agitator Required
Remarks Air Drawin 4-6 Hrs. Ambt. for Grinding Full Body Match for Y1246 Porcelain A.D. Torecoat in 24 Hrs. H.G.H

Y-1852 is available

GLD059546

| Characteristics and Method of Using | Cost Data | Customers |
|---|---|---|
| Type of Goods | | |
| Color | | |
| Luster | | |
| Match for | | |
| | | |
| Kind of Reducer | | |
| Amount of Reduction for | | |
| Brushing | | All plants 2-5-45 |
| Spraying Pressure | | |
| Dipping Drip Time | Analysis | |
| Flocoing Drip Time | | |
| Tumbling | | |
| Air dry to recoat | | |
| To Sand or Rub | | |
| Bake Time Temp. | | |
| Rub with | | |
| Polish with | | |
| Schedule | | |

GLD059547

480-D 30M 1-45 PRINTED IN U.S.A. (8)

# FORMULA RECORD

Goods Japalac Enamel Rich Blue — Formula No. Y 1246-C

Consistency Liquid — Date 12-11-45 — Laboratory No.

For Use on [illegible] — Cost Classification

| Code Number | One Gallon Batch | | | Gallon Batch | | | Gallon Batch | | | Manufacturing Specifications |
|---|---|---|---|---|---|---|---|---|---|---|
| | Pints | Lbs. | Ozs. | Gals. | Lbs. | Ozs. | Gals. | Lbs. | Ozs. | |
| C 168 | | 1 | | | | | | 80 | | Grind #4 |
| BL-16 | | 1 | 12 | | | | | 140 | | Kind of Mill Colloid |
| C 154 | | 1 | | | | | | 80 | | Strainer 60 mesh |
| W-1 | | | 2 | | | | | 10 | | Weight per Gallon 9.6 lbs |
| | | | | | | | | | | Light Baume Temp. |
| V 357 S.A. | 1½ | | | | | | 15 | | | Heavy Baume Temp. |
| IR 45016 | 53⅓ | | | | | | 57½ | | | Viscosity 50-70 Temp. |
| O 63 | ½ | | | | | | 5 | | | Viscosimeter |
| S 43 | ⅓ | | | | | | 2½ | | | Flash Point |
| | | | | | | | | | | Is Agitator Required |
| D 2A | | | 3 1/2 oz | | | | 1⅝ | | | Remarks Thinned |
| D 15 | | | 2 " | | | | 16⅓ | | | |
| | | | | | | | | Tinted | | Reddish-pink |
| 73-B-7 | | Trace | | | | | | | | Y 1246 |
| 73-A-79 | | | 2. | | Y 1246 H | | | 6/18/47 | | |
| | | | | | | | | | | |
| Yield | Comp | to | make | 1 | Gallon | matches | Standard | in | the | Stock |

Standard Formula. Add to L Taken from file.

GLD059548

| Characteristics and Method of Using | Cost Data | | | | Customers |
|---|---|---|---|---|---|
| Type of Goods Primer | | | | | |
| Color Clear | | | | | |
| Luster Flat | | | | | |
| Match for F-1276 | | | | | |
| | | | | | |
| Kind of Reducer | | | | | |
| Amount of Reduction for | | | | | All plants 12-14-45 |
| Brushing 0% | Pigment | | | 33.8% | |
| Spraying Pressure | Vehicle | | | 66.2% | |
| Dipping Drip Time | Analysis | | | 100.0% | |
| Flocoing Drip Time | Pigment | | | | |
| Tumbling | Whiting | | | | 26.8% |
| Air dry to recoat Four weeks | Ultramarine Blue | | | | 45.1% |
| To Sand or Rub | Calcium Carbonate | | | | 25.8% |
| Bake Time Temp. | Basic Sulphate White Lead | | | | 3.3% |
| Rub with | | | | | 100.0% |
| Polish with | Vehicle consists of Linseed Oil Cooked | | | | |
| Schedule | Varnish, | | | | |
| | Varnish | | | | 88.9% |
| | Bodied Linseed Oil | | | | 6.6% |
| | Mineral Spirits | | | | 2.7% |
| | Liquid Drier | | | | 3.8% |
| | | | | | 100.0% |

GLD059549

46-D SIM 3-44 PRINTED IN U.S.A. (B)

# FORMULA RECORD

Goods Infalac Enamel Rich Blue — Formula No. V 1246-F

Consistency Enamel — Date 7-23-45 — Laboratory No.

For Use on — Cost Classification

| Code Number | One Gallon Batch Pints | One Gallon Batch Lbs. | One Gallon Batch Ozs. | Gallon Batch Gals. | Gallon Batch Lbs. | Gallon Batch Ozs. | 100 Gallon Batch Gals. | 100 Gallon Batch Lbs. | 100 Gallon Batch Ozs. | Manufacturing Specifications |
|---|---|---|---|---|---|---|---|---|---|---|
| W69 | | 1 | 2 | | | | | 125 | | Grind A |
| BL-16 | | 1 | 2 | | | | | 120 | | Kind of Mill Steel |
| W181 | | 1 | | | | | | 80 | | Strainer |
| W104 | | | 2 | | | | | 10 | | Weight per Gallon 10.5# |
| | | | | | | | | | | Light Baume Temp. |
| V357 | 1½ | | | | | | 15 | | | Heavy Baume Temp. |
| VR45016 | 5¾ | | | | | | 57½ | | | Viscosity 20-30 Temp. |
| 065 | 1¼ | | | | | | 5 | | | Viscosimeter |
| S-93 | ¼ | | | | | | 2½ | | | Flash Point |
| | | | | | | | | | | Is Agitator Required |
| VM597 | | | 2 3/4 oz. | | | | 17/8 | | | Remarks Enamel |
| D15 | | | 2 3/4 oz. | | | | 1 1/4 | | | |
| DISCONTINUED | | | | | | | | | | |
| SEE V1245 | | | | | | | | | | |
| Yield | | | | | | | | | | F.P.W. |

Standard Formula. Not to be taken from File.

GLD059550

| Characteristics and Method of Using | Cost Data | | | | Customers |
|---|---|---|---|---|---|
| Type of Goods | | | | | |
| Color | | | | | |
| Luster | | | | | |
| Match for | | | | | |
| | | | | | |
| Kind of Reducer | | | | | |
| Amount of Reduction for | | | | | |
| Brushing | | | | | all plants 3-29-45 |
| Spraying Pressure | | | | | |
| Dipping Drip Time | Analysis | | | | |
| Flocoing Drip Time | | | | | |
| Tumbling | | | | | |
| Air dry to recoat | | | | | |
| To Sand or Rub | | | | | |
| Bake Time Temp. | | | | | |
| Rub with | | | | | |
| Polish with | | | | | |
| Schedule | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

GLD059551

480.0 50M PRINTED IN U.S.A. (B)

# FORMULA RECORD

Goods Plastic Enamel Red Wash Formula No. V1242F

Consistency Liquid Date 10/27/43 Laboratory No.

For Use on Cost Classification

| Code Number | One Gallon Batch | | | Gallon Batch | | | Gallon Batch | | | Manufacturing Specifications |
|---|---|---|---|---|---|---|---|---|---|---|
| | Pints | Lbs. | Ozs. | Gals. | Lbs. | Ozs. | Gals. | Lbs. | Ozs. | |
| | | 1 | 4 | | | | | 12 | | Grind |
| | | | 5 | | | | | 120 | | Kind of Mill |
| | | 1 | | | | | | 80 | | Strainer |
| | | | 1 | | | | | 5 | | Weight per Gallon |
| | | | | | | | | | | Light Baume Temp. |
| | 4 | | | | | | 50 | | | Heavy Baume Temp. |
| | | | | | | | 40 | | | Viscosity/ Temp. |
| | | | | | | | | | | Viscosimeter |
| | | trace | | | | | trace | | | Flash Point |
| | | | | | | | | | | Is Agitator Required |
| 0.39 | | | 2 | 1gal | | | 1 1/4 | | | Remarks |
| A | | | 2 | 1gal | | | 1 1/4 | | | Use Porcelain Balls |
| | | | | | | | | | | |
| DISCONTINUED SEE 7/1246 7 3/23/45 | Thinned to use Lacquer Thinner 5 Pints | | | | | | | | | |

GLD059552

| Characteristics and Method of Using | | Cost Data | | | | Customers |
|---|---|---|---|---|---|---|
| Type of Goods | | | | | | |
| Color | | | | | | |
| Brand | | | | | | |
| Match for | | | | | | |
| | | | | | | |
| Kind of Reducer | | | | | | |
| Amount of Reduction for | | | | | | |
| Brushing | | | | | | |
| Spraying | Pressure | | | | | |
| Dipping | Drip Time | Analysis | | | | |
| Flocoing | Drip Time | [illegible] | | | | [illegible] |
| Tumbling | | [illegible] | | | | [illegible] |
| Air dry to recoat | | | | | | [illegible] |
| To Sand or Rub | | [illegible] | | | | |
| Bake Time | Temp. | [illegible] | | | | [illegible] |
| Rub with | | [illegible] | | | | [illegible] |
| Polish with | | [illegible] | | | | [illegible] |
| Schedule | | [illegible] | | | | [illegible] |
| | | [illegible] | | | | |
| | | [illegible] | | | | [illegible] |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

GLD059553

480-D 50M PRINTED IN U.S.A. (D)

# FORMULA RECORD

Goods Interior Enamel Med. Blue. Formula No. J1646

Consistency Semi Gloss Date 7-3-43 Laboratory No.

For Use on Cost Classification

| Code Number | One Gallon Batch | | | Gallon Batch | | | Gallon Batch | | | Manufacturing Specifications |
|---|---|---|---|---|---|---|---|---|---|---|
| | Pints | Lbs. | Ozs. | Gals. | Lbs. | Ozs. | Gals. | Lbs. | Ozs. | |
| W45 | | | 3 | | | | | 15 | | Grind Ball |
| W69 | | | 13 | | | | | 65 | | Kind of Mill Ball |
| BL16 | | 1 | 8 | | | | | 120 | | Strainer |
| W11 | | 1 | | | | | | 80 | | Weight per Gallon 11# |
| | | | | | | | | | | Light Baume Temp. |
| V357 | 6 1/4 | | | | | | 6 1/4 | | | Heavy Baume Temp. |
| 063 | 1/8 | | | | | | 3 1/4 | | | Viscosity 10-12 Temp. |
| 052 | 3/4 | | | | | | 3 3/4 | | | Viscosimeter |
| S104 | 1/2 | | | | | | 5 | | | Flash Point |
| | | | | | | | | | | Is Agitator Required |
| D30 | | | 2 | Same | | | 1 1/4 | | | Remarks |
| D2A | | | 2 | " | | | 1 1/4 | | | Keep out of Match Portions Panel. |
| DISCONTINUED Changed to new Japalac number | | | | | | | | | | |
| SEE J1246 2 10/27/43 | | | | | | | | | | |
| Yield | | | | | | | | | | |

GLD059554

| Characteristics and Method of Using | Cost Data | Customers |
|---|---|---|
| Type of Goods | | |
| Color | | |
| Luster | | |
| Match for | | |
| Kind of Reducer | | |
| Amount of Reduction for | | |
| Brushing | | |
| Spraying Pressure | | |
| Dipping Drip Time | Analysis | |
| Flocoing Drip Time | Pigment 31.4 | |
| Tumbling | Vehicle 68.6 | |
| Air dry to recoat | 100.0% | |
| To Sand or Rub | Pigment | |
| Bake Time Temp. | Titanium Oxide | 5.35 |
| Rub with | Litharge | 23.20 |
| Polish with | Ultramarine Blue | 42.90 |
| Schedule | Magnesium Silicate | 28.55 |
| | | 100.00% |
| | Vehicle | |
| | Varnish | 82.5 Non Vol. 50% |
| | Refined Linseed Oil | 9.7 |
| | Mineral Spirits | 5.6 |
| | Dryer | 2.2 |
| | | 100.0% |

GLD059555

460-D 3EN 1-41 PRINTED IN U.S.A. (WP)

# FORMULA RECORD

DISCONTINUED

Goods Indigo Enam. Rich Blue — Formula No. 1[illegible]

Consistency Liquid — Date 11-19-41 — Laboratory No. 1

For Use on — Cost Classification

| Code Number | One Gallon Batch | | | Gallon Batch | | | Gallon Batch | | | Manufacturing Specifications |
|---|---|---|---|---|---|---|---|---|---|---|
| | Pints | Lbs. | Ozs. | Gals. | Lbs. | Ozs. | Gals. | Lbs. | Ozs. | |
| W 133 | | | 3 | Ozs. | | | | | | Grind 1 |
| W 69 | | | 13 | Ozs. | | | | | | Kind of Mill [illegible] |
| BL 1/2 | | 1 | 8 | | | | | | | Strainer |
| W 11 | | 1 | | | | | 1 gal. | | | Weight per Gallon 13.4# |
| VM 308 | | | 1 | Oz. Liq. | | | 1 | | | Light Baume Temp. |
| | | | | | | | | | | Heavy Baume Temp. |
| V 706-5 | 4 | | | | | | | | | Viscosity 110-120 Temp. |
| V 705 C4 | 4 | | | | | | | | | Viscosimeter |
| | | | | | | | | | | Flash Point |
| T 29 | | | 2 | 2oz to Gal. | | | | | | Is Agitator Required |
| D2F | | | 2 | 2 " " | | | | | | Remarks |
| | | | | | | | | | | Hayward |
| | | | | | | | | | | Match Porcelain Panel |
| Yield | | | | | | | | | | |

GLD059556

| Characteristics and Method of Using | Cost Data | Customers |
|---|---|---|
| Type of Goods | | |
| Color | | |
| Luster | | |
| Match for | | |
| | | |
| Kind of Reducer | | |
| Amount of Reduction for | | |
| Brushing | | |
| Spraying Pressure | | |
| Dipping Drip Time | Color Analysis | |
| Flocoing Drip Time | | |
| Tumbling | | |
| Air dry to recoat | | |
| To Sand or Rub | | |
| Bake Time Temp. | | |
| Rub with | | |
| Polish with | | |
| Schedule | | |
| | | |
| | | |
| | | |
| | | |
| | | |

GLD059557

4800 2SM 1-41 PRINTED IN U.S.A. (WP)

# FORMULA RECORD

Goods JAP-A-LAC ENAMEL RICH BLUE — Formula No. V-1246-B

Consistency LIQUID — Date 9-26-41 — Laboratory No.

For Use on — Cost Classification

| Code Number | One Gallon Batch | | | Gallon Batch | | | Gallon Batch | | | Manufacturing Specifications |
|---|---|---|---|---|---|---|---|---|---|---|
| | Pints | Lbs. | Ozs. | Gals. | Lbs. | Ozs. | Gals. | Lbs. | Ozs. | |
| W 133 | | | 3 | | | | | | | Grind A |
| W 69 | | | 13 | | | | | | | Kind of Mill STONE |
| BL 16 | | 1 | 8 | | | | | | | Strainer |
| W 11 | | 1 | | | | | | | | Weight per Gallon 10.4# |
| VM 308 | | | 1 | | | | | | | Light Baume Temp. |
| | | | | | | | | | | Heavy Baume Temp. |
| V 706 S | 4 | | | | | | | | | Viscosity 110-120" Temp. |
| | | | | | | | | | | Viscosimeter |
| V 318 A | 4 | | | | | | | | | Flash Point |
| | | | | | | | | | | Is Agitator Required |
| D 29 | | | 2 LIQ. OZ. TO GAL | | | | | | | Remarks |
| D 2A | | | 1 " " " | | | | | | | |
| | | | | | | | | | | MATCH PORCELAIN |
| | | | | | | | | | | PANEL |
| GRIND IN V 706 S | | | | | | | | | | |
| | | | | | | | | | | |
| CHANGED BECAUSE V 850 NOT AVAILABLE | | | | | | | | | | |
| | | | | | | | | | | |
| Yield | | | | | | | | | | HAYWARD |

GLD059558

| Characteristics and Method of Using | Cost Data | Customers |
|---|---|---|
| Type of Goods | | |
| Color | | |
| Luster | | |
| Match for | | |
| | | |
| Kind of Reducer | | |
| Amount of Reduction for | | |
| Brushing | | |
| Spraying Pressure | | |
| Dipping Drip Time | Analysis | |
| Flocoing Drip Time | PIGMENT 34.0% | |
| Tumbling | VEHICLE 66.0% | |
| Air dry to recoat | 100.0% | |
| To Sand or Rub | PIGMENT | |
| Bake Time Temp. | TITANATED LITHOPONE 28.0% | |
| Rub with | ULTRAMARINE BLUE 40.0% | |
| Polish with | MAGNESIUM SILICATE 27.0% | |
| Schedule | PRUSSIAN BLUE 5.0% | |
| | 100.0% | |
| | VEHICLE | |
| | ELASTIC VARNISH 100.0% | |
| | NON VOLATILE 52.0% | |

GLD059559

PRINTED IN U.S.A. (B CO.)

# COST DEPARTMENT RECORD

Classified Formula No Y-1246-B

Goods Rich Blue Japalac Ex. (Temp.) Laboratory Formula No. TEMP.

Consistency Liquid Date 12-1-41 Factory Letter No.

For Use on Production No.

Customer Cost Classification

| Ingredient Code Number | Lab'ty Formula | Large Batch Pounds | Large Batch Gallons | Do not write in these columns For Cost Department Use Only | Manufacturing Specifications |
|---|---|---|---|---|---|
| 87-A-3 | | 96 | | | Grind Mix |
| 87-W-77 | | 256 | | | Kind of Mill |
| 87-A-51 | | 4 | | | Strainer |
| 2-KB-74 | | | 44 | | Weight per Gallon 9.3# |
| RVL-1273 | | | 16 | | Light Baume Temp. |
| S-43 (Cold) | | | 4 | | Heavy Baume Temp. |
| D-90 | | | 1 | | Viscosity 1'20"-1'30" Temp 80°F |
| CH-189 (Sub.) | | | 12 lbs. oz. | | Viscosimeter #4 Ford Cup |
| | | | | | Flash Point |
| This Formula For | | | | | Is Agitator Required Yes |
| small batches only. | | | | | |
| | | | | | Formulator W. Bivens |
| Yield | | | | | |

GLD059560

| Characteristics and Method of Using | | Cost Data | | | | Remarks |
|---|---|---|---|---|---|---|
| Type of Goods | A.D. Enamel | Date | Bulk Cost | Date | Bulk Cost | Reformulated to |
| Color | Rich Blue | | | | | match standard panel |
| Luster | Gloss | | | | | more closely. |
| Match for | Purc. Panel | | | | | |
| Kind of Reducer | | | | | | |
| Amount of Reducer | Brushing F.B. | | | | | |
| | Spraying | | | | | |
| | Dipping | | | | | |
| | Flocoing | Analysis | | | | |
| | Tumbling | | | | | |
| Air dry to recoat | | | | | | |
| To Sand or Rub | | | | | | |
| Bake Time | Temp. | | | | | |
| Rub with | | | | | | |
| Polish with | | | | | | |
| Schedule | | | | | | |

COAL DEVELOPMENT RECORD

GLD059561

# COST DEPARTMENT RECORD

Classified Formula No. Y-1247 (3

Name Rich Blue Japalac Enamel (Temp.)

Laboratory Formula No. (Temp.)

Consistency Liquid Date 12-3-41

Factory Letter No.

For Use on

Production No.

Customer

Cost Classification

| Ingredient Code Number | Lab'ty Formula | Large Batch Pounds | Large Batch Gallons | Do not write in these columns For Cost Department Use Only | Manufacturing Specifications |
|---|---|---|---|---|---|
| W-77 | | 176 | | | Grind A |
| BL-53 | | 34 | | | Kind of Mill Stone |
| BL-51 | | 1 | | | Strainer |
| 2-KB-74 | | | 44 | | Weight per Gallon |
| RVL-1273 | | | 16 | | Light Bourne Temp. |
| S-43 | | | 4 | | Heavy Bourne Temp. |
| D-46 | | | 3/4 | | Viscosity 1'20"-1'30" Temp 80° F. |
| CH-189 (S.b.) | | | 10.3 lbs. | | Viscosimeter #4 Ford Cup |
| | | | | | Flash Point |
| Use this Formula for large batches only. Use the mix for small batches. | | | | | Is Agitator Required |
| | | | | | Formulator W. Burns |
| Yield | | | | | |

GLD059562

| Characteristics and Method of Using | Cost Data | | | | Remarks |
|---|---|---|---|---|---|
| Type of Goods A.D. Enamel | Date | Bulk Cost | Date | Bulk Cost | |
| Color Rich Blue | | | | | |
| Luster Gloss | | | | | |
| Match for Pan. Panel | | | | | |
| Kind of Reducer | | | | | |
| Amount of Reducer — Brushing F.B. | | | | | |
| Amount of Reducer — Spraying | | | | | |
| Amount of Reducer — Dipping | | | | | |
| Amount of Reducer — Flocoing | Analysis | | | | |
| Amount of Reducer — Tumbling | | | | | |
| Air dry to recoat | | | | | |
| To Sand or Rub | | | | | |
| Bake Time Temp. | | | | | |
| Rub with | | | | | |
| Polish with | | | | | |
| Schedule | | | | | |

COAL DEVELOPMENT RECORD

GLD059563

# FORMULA RECORD

Goods Lakeflex Enamel Rich Blue. Formula No. V1511E

Consistency Liquid Date 3/24/41 Laboratory No.

For Use on " Cost Classification

| Code Number | One Gallon Batch Pints | Lbs. | Ozs. | Gallon Batch Gals. | Lbs. | Ozs. | Gallon Batch Gals. | Lbs. | Ozs. | Manufacturing Specifications |
|---|---|---|---|---|---|---|---|---|---|---|
| W133 | | | 3 | Gal. | | | | | | Grind A. |
| W169 | | | 13 | " | | | | | | Kind of Mill Stone |
| 2L16 | | 1 | 8 | " | | | | | | Strainer |
| W11 | | 1 | | " | | | | | | Weight per Gallon 10.4 |
| V9308 | | | 1 | Gal. | | | | | | Light Baume Temp. |
| | | | | | | | | | | Heavy Baume Temp. |
| V850 | 3¾ | | | | | | | | | Viscosity 20-130 Temp. |
| V318 | 3¾ | | | | | | | | | Viscosimeter |
| 543 | ¼ | | | | | | | | | Flash Point |
| | | | | | | | | | | Is Agitator Required |
| 939 | | | 2 | 1/2 Gal. | | | | | | Remarks Standard |
| 9217 | | | 1 | " " | | | | | | Wax |
| | | | | | | | | | | C.P. |
| 9357 | | Trace | | | | | | | | |
| 9783 | | | 3 | Gal. | | | | | | Mahl Crucible |
| 87644 | | | 1 | " " | | | | | | Pumice |
| | | | | | | | | | | |
| Grind on V850 | | | | | | | | | | |
| Yield | | | | Changed to New Lab Equivalent | | | | | | |

DISCONTINUED
SEE Y12463

GLD059564

| Characteristics and Method of Using | Cost Data | | | | Customers |
|---|---|---|---|---|---|
| Type of Goods | | | | | |
| Color | | | | | |
| Luster | | | | | |
| Match for | | | | | |
| | | | | | |
| Kind of Reducer | | | | | |
| Amount of Reduction for | | | | | |
| Brushing | | | | | |
| Spraying Pressure | | | | | |
| Dipping Drip Time | Pigment | Analysis | 34 | | |
| Flocoing Drip Time | Vehicle | | 66 | | |
| Tumbling | | | 100 | | |
| Air dry to recoat | Pigment | | | | |
| To Sand or Rub | Titanated Lithopone | | | | 28.0 |
| Bake Time Temp. | Ultramarine Blue | | | | 40.0 |
| Rub with | Magnesium Silicate | | | | 27.0 |
| Polish with | Prussian Blue | | | | 5.0 |
| Schedule | | | | | 100% |
| | Vehicle | | | | |
| | Elastic Varnish | | | | 100% |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

GLD059565

A-180-D 10m 3-35

# FORMULA RECORD

Goods Rich Blue Japalac Ena. Formula No. V1246

Consistency Jelled Date 6/12-35 Laboratory No. /

For Use on Cost Classification

| Code Number | One Gallon Batch: Pints | Lbs. | Ozs. | Gallon Batch: Gals. | Lbs. | Ozs. | Gallon Batch: Gals. | Lbs. | Ozs. | Manufacturing Specifications |
|---|---|---|---|---|---|---|---|---|---|---|
| V 109 | 3/4 | | | | | | 42 | | | Grind |
| V 119 | 1/2 | | | | | | 18 | | | Kind of Mill |
| V 706 | 2 | | | | | | 24 | | | Strainer |
| V 202A | 1 | | | | | | 12 | | | Weight per Gallon |
| | | | | | | | | | | Light Baume Temp. |
| D 2A | 1 Lg | | | | | | 3/4 | | | Heavy Baume Temp. |
| | | | | | | | | | | Viscosity Temp. |
| W 95 | | 1 | | | | | 96 # | | | Viscosimeter |
| BL 16 | | 1 | 8 | | | | 144 # | | | Flash Point |
| W 11 | | 1 | | | | | 96 # | | | Is Agitator Required |
| | | | | | | | | | | Remarks |
| 26 B 3 | Trace | | | | | | | | | This is a new |
| 93 A 3 | | | 3 | | | | 21 # | 18 | | shade of Rich |
| 87646 | | | 1 | | | | 7 # | 6 | | Blue Japalac & |
| | | | | | | | | | | must be matched |
| | | | DISCONTINUED | | | | | | | to new Standard |
| | | | | | | | | | | |
| | | | SEE V 1246 A | | | | | | | JPW |
| Yield | | | | | | | | | | |

GLD059566

| Characteristics and Method of Using | | Cost Data | | Customers |
|---|---|---|---|---|
| Type of Gnish | | | | |
| Color | | | | |
| Luster | | | | |
| Match for | | | | |
| | | | | |
| Kind of Reducer | | | | |
| Amount of Reduction for | | | | |
| Brushing | | | | |
| Spraying | Pressure | | | |
| Dipping | Drip Time | Pigment Analysis | 34% | |
| Flocoing | Drip Time | Vehicle | 66% | |
| Tumbling | | | 100% | |
| Air dry to recoat | | Pigment: | | |
| To Sand or Rub | | Titanolith | | 28% |
| Bake Time | Temp. | Ultramarine Blue | | 40 |
| Rub with | | Magnesium Silicate | | 27 |
| Polish with | | Prussian Blue | | 5% |
| Schedule | | | | 100% |
| | | Vehicle: | | |
| | | Elastic Varnish | | 100% |
| | | Round Caps 1"-1/2"-1/4"-1/8"-1/16"-1/32"s | | |
| | | Japaloc Label | | |

GLD059567