



11-C

Color Card Flat White GL-57333-A was formulated for Dorn Color Card Company for use in color card manufacture. The material reduces 3:1 with S-42 for spraying. Dries hard overnight for handling. This white is easily tinted with our 93 Line which they use regularly. It is elastic enough so that it will not chip when cut into small swatches.

Gray Daylite Locker Enamel GL-57504 was formulated in quality of 31-E-19 and matching color of 20-E-175 for W. F. Gammeter Company.

Raw Materials

35% Leaded Zinc Oxide - Leigh #61 from the New Jersey Company was compared with our regular W-6 in the Y-1800-X formula. The #61 Leigh grind showed 89 K.U. vs. 84 K.U. for the W-6 grind. One laboratory reported that #61 Leigh would give much higher body readings and only recommended a 50% replacement of W-6 with the Leigh #61. Package stability and exterior durability will be observed. Our tests have not indicated that Leigh #61 gives excessive bodying.

Bakelite C-10 Resin: Enamels were made over the Bakelite suggested formulas as follows:

	<u>#1</u>	<u>#2</u>
W-163	4 lbs.	4 lbs.
W-128	-	8 oz.
GH-185	1/2 oz.	1/2 oz.
Bakelite C-10	5-3/8 pts.	4-7/8 pts.
O-268	-	3/4 pts.
S-43	2-5/8 pts.	2-5/8 pts.
D-44	3 L.oz.	3 L.oz.

Enamels were found to have very poor can stability. The films became brittle in a very short time. Clear films of C-10 and the enamels show complete failure by checking after 169 hours in the weatherometer.

Titanox RCHT vs. R-27 (W-179) Comparison grinds were made over both the Y-4700-B and Y-4600 formulas with these two pigments. No great difference could be found between the two pigments when used in these types of formulas.

Competitive Enamels

Red Devil Refrigerator Enamel was found to be about the same quality as Japalac White Y-1217-N with Y-5045 a close second. It is an alkyd white and is blued similar to Y-1217-N.

Lusteron White Enamel made by Magicolor Co.

This enamel is a synthetic enamel similar to Y-5045 but is not blued to the same degree. It has a viscosity of 300 seconds and shows hard brushing even when reduced 16:1. It has similar hold-out over bare wallboard that Y-5045 has. The dry is not quite as good as Y-5045. The gloss is slightly higher, and is similar to Japalac. The hiding is comparable with Y-5045 and Japalac White.

H. G. Hayward

HGH:mg

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