

CG 03 CODE KY-787-D

OCT-30 80 37661

STANDARD HRS. 10.6 TIME 11:30 AM

PROCESSES APPROVED BY
 () KY-787-S (S) FWP 9/18/80
 () () (XOB-17: 3/4
 () () N-32-D & 240
 () () MIN STRIKE)
 TYPED BY: FWP 9/18/80

CG CODE PQ LOT LBS
 14 YC002B 93 13173 4200
 14 YC002B 93
 14 YC002B 93

PUNCHED & CHECKED

TOTAL EST'D WGT 5845

NON-BLEEDING

R+D to follow OCT 3 1980 E. Koslosky
 Do not dump until ~~10:00 AM~~ is in (7 AM)

EQUIP	NAME : "KROLOR" YELLOW MEDIUM	USE LBS	NCODE	ACCT LBS
203	1 RUN 60" (990 GAL) WATER INTO V-203 WITH AGITATOR		7210	
&	ON HIGH SPEED & ADD CAUSTIC	20	7-D	20
205	2 WEIGH SODIUM SILICATE INTO DRUM & POUR IN	420	32-D	420
	DUMP IN CHROME YELLOW & STIR 5 MIN	84X50	YC-2-B	4200
1	RECORD: START 8:00 AM LOT # 13173			
	FIN 9:10 AM			
4	ADJUST TO 75" (1275 GAL) STIR 10 MIN RECORD: PH 10.5			
5	WITH AGITATOR ON LOW SPEED PUMP V-203 THRU			
	HOMOG AT 2400-2600 PSI INTO V-203 USE No 3 Homog only			
6	WHEN V-203 MT, WASH COLOR THRU HOMOG WITH MIN			
	HOT WATER AT 2400-2600 PSI INTO V-205 263			
7	RECORD: V-205 VOL. 34 " & ADJUST TO 48" (2000 GAL)			
8	INSPECT HOMOG STRAINER & CLEAN IF NECESSARY			
208	2 RUN 2" (200 GAL) WATER INTO V-246 START			
&	AGITATOR & INSTALL TEMP CHART			
SV	PUMP V-205 THRU HOMOG AT 4800-5200 PSI INTO SV. USE No 3 Homog only			
2	RECORD: TIME START 2:10 TOTAL MINUTES 1.5			
	NOTE: IF HOMOG PRESSURE FALLS BELOW 4800 PSI,			
	3-WAY VALVE WILL RECIRCULATE SLURRY TO V-205 263			
11	WHEN V-205 MT, RUN IN 5" (240 GAL) WATER & PUMP			
	THRU HOMOG AT 4800-5200 PSI INTO SV			
349	12 WHILE HOMOG, RUN 6" (284 GAL) WATER INTO V-349			
&	13 RUN 1000# WATER INTO V-384 & HEAT TO 110-120°F			
384	14 WEIGH INTO V-384 & PUMP TO V-349	2415	32-D	2415
5	15 RUN 1000# WATER INTO V-384 & PUMP TO V-349			
OK	16 ADJ V-349 TO 17" (805 GAL) & STIR 15 MIN			
SV	17 RECORD DENSITY: 1.1025 G/ML (1.103-1.105) 49" V-346			
SYN	18 WHEN S-11 HOMOG COMPLETE, ADJ SV TO 24" (2420 GAL)			
4	19 RECORD: PH 9.25 & ADJ TO 11.1-11.3 WITH CAUSTIC			
	AT 5% (10 PARTS WATER TO 1 PART N-7-D)			
246	20 ASSUME 50% 34 7210 34			
	SIPHON N-7-D INTO SV & RECORD: PH 11.3			
24	HEAT TO 190-194°F IN 55-65 MIN & REC: HT 190°F			
	& RECORD: 192°F			
	NOTE: STRIKE MUST BE STARTED IMMEDIATELY ON			
	ON COMPLETION OF HEATING			
343	21 WHILE HEATING SV, RUN 39" (1070 GAL) WATER INTO			
&	V-343 & METER IN SULFURIC ACID FROM V-384			
386	MK 6.5 9.275 #/GAL 38.9 GAL			
5	22 STIR 15 MIN OR LONGER SAMPLE			
	23 RECORD: DENSITY 1.025 G/ML (1.023-1.025)			

24 WHEN S 20 HEATING COMPLETE, RECORD: PH 9.8

25 SET V-343 ACID PUMP AT 49 SETTING (285 MIN)

26 SET V-349 SILICATE PUMP AT 38 SETTING (240 MIN)

27 IMMEDIATELY METER IN V-343 & V-349. MAINTAIN SV AT 190-194°F DURING STRIKE

SV 28 RECORD: START FINISH MINUTES

V-343	<u>8:10 PM</u>	<u>12:10</u>	<u>240</u>
V-349	<u>8:10 PM</u>		

TIME INCHES INCHES PH PH

AT 20 MIN 8:30 PM (37) 32 1/2 (16) 12 1/2 9.8 (9.3-10.0)

SAMPLE 40 MIN 8:50 PM (34) 35 1/4 (14) 15 1/4 9.5 (9.3-10.0)

6 SAMPLE 1 HR 9:10 PM (31) 32 3/4 (13) 15 1/2 9.5 (9.3-10.0)

SAMPLE 2 HR 10:10 PM (23) 23 (9) 9 9.8 (9.3-10.0)

SAMPLE 3 HR 11:10 PM (15) 14 1/2 (4) 4 9.7 (9.3-10.0)

SAMPLE 4 HR 12:10 PM (6) 6 (0) 0 9.5 (9.3-10.0)

FINISH 12:10 PM (0) 0 0 8.7 (7.5-8.5)

NOTE: IF PH DROPS BELOW 9.3 IN FIRST HOUR, STOP PUMPS & SEE SUPV. IF FINAL PH IS ABOVE 8.5, ADJ TO 7.5-8.5 PH 8.0 ASSUME 77% 13 27-D 10

330 29 RUN 35" (600 GAL) WATER INTO V-330 & HEAT TO 160-170°F

7 30 ADD DRESINATE "X" IN 12-13 MIN 600 530-A 600

31 STIR 5 MIN & RECORD: PH 10.2 (9.5-10.5)

32 STIR 20 MIN OR LONGER FOR S-45

385 23 RUN 40" (308 GAL) WATER INTO V-385 & HEAT TO 135-140°F

8 34 DUMP IN ALUM & STIR TO DISSOLVE FOR S-41 280 15-A 280

302 35 ADD 42" (513 GAL) WATER TO V-302

9 36 ADD & STIR 2 MIN FOR S-43 ASSUME 50% 320 72-D 320

SV 37 WHEN V-349 MT, RINSE IN WITH MINIMUM WATER & SET PUMP AT ZERO SETTING

10 38 WHEN V-343 MT, RINSE IN WITH MINIMUM WATER & TURN OFF PUMP MOTOR

39 TURN OFF STEAM

40 SIFT IN BLANC FIXE 200 128-A 200

41 RUN IN V-385 FROM S 34 & STIR 5 MIN

42 RECORD: PH 4.0 (3.7-4.2)

43 RUN IN N-7-D FROM S 36 IN 10-12 MIN & STIR 5 MIN

44 RECORD: PH 11.8 (9.0-9.5) IF NECESSARY ADJ TO PH 9.0-9.5. RECORD: PH 9.5 ASSUME 77% 225 27-D 173

DILUTE N-7-D 10 TO 1 WITH WATER ASSUME 50% 7-D

SIPHON N-7-D INTO SV

45 RUN IN V-330 THRU 20 MESH SCREEN & STIR 20 MIN

330 46 RUN 11" (216 GAL) WATER INTO V-330

11 47 DUMP IN CALCIUM CHLORIDE & STIR 5 MIN FOR S-48 230 20-A 230

SV 48 RUN V-330 INTO SV IN 15-20 MIN

12 49 STIR 15 MIN & RECORD: PH 10.0 (9.0-10.0)

SV 50 DO NOT STOP AGITATOR

START	FINISH	OPERATOR
<u>9:10 PM</u>	<u>11:10 PM</u>	<u>120-101</u>
<u>3:00 PM</u>	<u>4:10 PM</u>	<u>140-204</u>
<u>11 PM</u>	<u>3:30</u>	<u>282-342</u>