

C.V. (105), 106

MAKING INSTRUCTIONS: BATCH UNIT

D.V. 300, 315, 317, 322, 323

CG 46 CODE YC-11-A PKG.

→ MAR-1 34646

EST. WGT. 2238 LBS.

STD. HRS. TIME 7 AMR 31960

PUNCHED & CHECKED

ZALMAR - 3196J

PROCESSES		APPROVED BY
(D) YC-11-A	()	EWK 9-27-77
() ALTERNATE	()	BBK 10-17-77
()	()	DCG 11-29-77
()	()	MTW 12-1-77
TYPED BY		
JIC 12-8-77		

NON-BLEEDING

UIPMENT	NAME: DALAMAR® YELLOW	USE LBS.	N CODE	ACCT. LBS.
Prep 1	1 Obtain for S 6		157-C	
	2 Obtain for S 22		46-C	
	3 Clean, dress, close 24" clarif press - 15 frames			
DV. 2	4 Run 10" (323 G) water into V- 323			
	5 Weigh in from V-324 M 3 . 30.96 %	1479	28-D	458
	6 Dump & rinse in drums from S 1		157-C	974
	LOT # 100% %			
	197 107 56.4 190			
	197 129 67.8 190			
	197 98 51.4 190			
	" 128 67.6 190			
	" 111 58.2 190			
	" 125 65.6 190			
	" 128 67.2 190			
	" 115 60.6 190			
	" 33 65.8 50			
	7 Stir 10 min or longer to wet			
	8 Add to 33" (1155 G) at 28-32°F	10 x 330	57-A	3300
	9 Siphon in in 12-15 min M 3 . 33.46 %	1166	725-A	455
	10 Stir 30 min at 28-32°F maintaining + CR, + KI for S 12			390
	Record: Time Start 1000, CR + (+), KI + (+)			
	Note:			
	(1) If CR -, KI -, add 20# "as is" increments Assume 32%		28-D	
	Record: CR (+), KI (+)			
	(2) If CR +, KI -, add 20# "as is" increments Assume 33%			
	Record: CR (+), KI (+)			
Misc 3	11 Slurry in 40 gal water in drum & precoat clarif press with	5	777-A	5
DV 4	12 When S 10 stir complete, dump in	15	113-A	15
	13 Dump in	10	777-A	10
	14 Stir 30 min at 28-32°F maintaining + CR, + KI for S 20		57-A	
	Record: Time Start 1130, CR + (+), KI + (+)			
	Note:			
	(1) If CR -, KI -, add 20# "as is" increments Assume 32%		28-A	
	Record: CR (+), KI (+)			
	(2) If CR +, KI -, add 20# "as is" increments Assume 33%		725-A	
	Record: CR (+), KI (+)			

2.30

190
75

EQUIPMENT		PAGE 2 CG 46 CODE (D)YC-11-A Alt EST. WGT. 2238 LBS.	USE LBS.	N CODE	ACCT. LBS.
CV 5	15	Run 10" (970 G) water into V-105 & install temp chart			
	16	Pour in M 3, 48.04 %	970	7-D	466
	17	Adj to 40" (3904 G) at 66-70°F	3 x 330	57-A	
	18	Close stack damper			
	19	Stir for S 22			
DV 6 Topped Clarified + 200 ppm less not leached at 130 ppm	20	When 14 stir complete, test DV & Record: CR + (+), KI + (+), Temp: 28 (28-32°F)		57-A	
		Note:			
		(1) If CR-, KI-, add 20# "as is" increments Assume 32% Record: CR (+), KI (+)		28-A	
		(2) If CR+, KI-, add 20# "as is" increments Assume 33% Record: CR (+), KI (+)		725-A	
	21	Pump DV thru clarif press into V-315 maintaining temp at 28-32°F Record: Time Start 12:30 PM Total Min 165	2 x 330	57-A	660
CV 7	22	Dump into CV from S 2 LOT # 100% 1200 % Note: Break up lumps 92.560 05 92.4 70		46-C	1265
	23	Stir 10 min to dissolve			
	24	Open stack damper			
	25	Run in undersurface in 20.25 min M 4, 72.64 %	982	30-D	713
	26	Stir 5 min & Record: pH 7.5 (5.8-6.3)			
DV 8	27	If necessary, adj to pH 5.8-6.3 & Record: pH 5.9 (5.8-6.3) Assume 50% Assume 77%	75	7-D 30-D	58
	28	When S 21 clarif complete, wash DV (S 4) lines, pump & press for 20 min or to a -CR test on a sample of total press effluent whichever comes first. Collect washings in DV (S 21) Record: Time Start 3:45 PM, CR S+ (- or +)			
	29	Stir 5 min & Record: Temp 27 (28-32°F) & if necessary, adj to 28-32°F. Record: °F		57-A	
	30	Wash in Rubber bucket & wash into DV	30	30-D	30
	31	Stir 5 min & Record: KI (-)			
Misc 9	32	If necessary, adj to -KI & Record: KI (-)			
	33	Record: DV 35 "			
CV 10	34	Weigh in drums for S 41 M 3, 48.04 %	616	7-D	296
	35	Dissolve in 20 gal water in drum for S 43	62	979-A	62
CV 10	36	When S 33 complete, adj CV to 48" (4685 G) at 80-84°F			
	37	Check accuracy: HT 82 °F & Recorder 82 °F			
	38	Immediately run in DV thru undersurface distributor in 60-65 min. Maintain CV at 80-84°F Record: Time Start 6:10 PM Total Min 65			
	39	When S 38 complete, stir 10 min			

EQUIPMENT	PAGE 3	CG 46	CODE (D)YC-11-A	Alt. EST. WGT. 2238	LBS.	USE LBS.	N CODE	ACCT. LBS.
CV 10 Cont'd	40	Record: Diazo --- (-), Base + (+), pH 4.4 (4.3-4.7)						
		Note:						
		(1) If Diazo +, Base -, and pH below 4.3:						
		(a) adj to pH 4.3-4.7 Assume 50%					7-D	
		(b) Record: pH						
		(2) If Diazo +, Base -, and pH 4.3 or above:						
		(a) add 8# 100% N-7-D to a 55 G drum					7-D	
		(b) adj with water to $\pm$ 25 G						
		(c) add 20# 100% N-46-C					46-C	
		(d) stir to dissolve						
		(e) pour into CV						
		(f) stir 10 min						
		(3) Repeat (1) & (2) above as necessary to - Diazo, + Base						
	41	Pour in N-7-D from S 34 & stir 5 min						
	42	Record: pH 7.8 (8.0-8.5) & if necessary Assume 50%					7-D	
		adj to pH 8.0-8.5. Record: pH 8.4 Assume 32%				27	28-D	
	43	Dump in N-979-A from S 35						
	44	Heat to 200-204°F in 58-62 min						
	45	Stir 60 min at 200-204°F. Record: Time Start 7:55 PM						
	46	Flood to 94" (9174 G) & stop agitator						
		START	FIN	OPTR				
		7:00 A	3:00 P	12:00				
		3:00 PM	8:30 PM	323				

