

INTER-OFFICE MEMO **TENNECO CHEMICALS, INC.**

TO H.B. Carr AT Burlington DATE August 23, 1973

FROM F.W. Kanzler AT Burlington COPY TO R.J. Eckman
P. Gawason
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File

SUBJECT MONTHLY PROGRESS REPORT
August, 1973

I. ROUTINE ANALYSISA. Raw Material Evaluation

IR Scan	12
Avirol POL-1-N	
Cloud Point	1
% FAS	1
Bottle Polymerization	6
(5 runs @ 4 bottles each)	
(1 run @ 8 bottles each)	
RVCM Storage	
Phenol in Copolymer Storage	3
Styrene Monomer Evaluation	4
L ₂ O ₂ - Assay, A(0)	9
TAIC (Polymer Content)	1

B. In-Process Analyses

Trace Oxygen, Compressor 1	19
" " , " 2	18
" " , " 3	24
" " , " 4	22
" " , " 5	18
" " , " 6	28
COD AI	22
COD FCE	22
% FAS AI	4
% FAS FCE	4
Demineralized Water (Cu, Fe, o-PO ₄ , DO)	
Hot	1
Cold	1
Boiler	1

C. Finished Product

Bound Acetate	43
Haze & Gloss	42
Brabender Extruder Gels	32
Total from Section II	338
	89
TOTAL	427

II. SPECIAL TESTING

A. Resin Plant

1. Raw Materials

a. Methocel

As discussed during the previously reported meeting with Dow representatives on 6/29/73, a 50-lb sample of F30G (lot #MM120621FG) granular Methocel has been received. The Quality Control evaluation showed a reduced level of ferro magnetic contamination. The count, however, still showed 50+. In addition, the particle size was observed to be very coarse (100 - 800 μ), with very few particles in the range of 50 to 100 μ . Jim Holten (Dow, Midland) was contacted. While he did not have a lot analysis of the sampled lot, a lot preceeding MM120621FG showed, according to J. Holten, "a high chemical iron level" (43 ppm). Mr. Holten will run a ferro magnetic contamination check on the retain of the sampled lot and will report the findings to us. Furthermore, it was observed that a large amount of undissolved cellulosic fibers are present in the Methocel solution.

b. Hormel Gelatin

In search of an alternate supply of gelatin, an "A" and "B" type gelatin mix from Hormel has been evaluated in the Pilot Plant. For in-plant evaluation, a 300-lb sample of the "A" and "B" mix was received in Burlington. While no specifications have been set for this gelatin, the pH values seem to fall in the mid-range of pure "A" and "B" types (5.0 for Hormel, typical values "A" Rozic 4.3, "B" Colic 5.5). The ferro magnetic contamination was relatively high: 50+. The particle size, however, was observed to be in the range from 25 - 80 μ with only a few particles larger than 150 μ .

2. In-Process

a. Oxygen Analysis of Compressors

The evaluation of continuous oxygen analysis in recovery compressors has resumed with the evaluation of compressor #6 (plastisol). After full two days of operation, the system functions well. A report will issue at the completion of this evaluation series.

b. Filter Cloth Evaluation

The cloth on #1 filter (NY76W42, monofilament) is showing good filtration rates after eight weeks.

c. VCM Material Balance

The program was continued with efforts to find a column with good separation characteristics; to improve and maximize instrument sensitivity.

Initial analyses on plastisol resins and formulations showed low levels of residual monomer (<10 ppm).

B. Compound Plant

1. Raw Materials

a. Lead Analyses

The Compound Plant support was continued with 15 lead analyses.

b. Analysis of "Unknown" Inventory

As in previous years, "unknown" inventory from the Compound Plant is analyzed for identification. A total of 15 samples were submitted.

C. Flemington Plant

1. Impact Modification and Processing Aids

A total of 50 samples were analyzed for haze and luminous transmittance.

D. Miscellaneous

1. Running Account of Analyses

<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>
418	428	446	403	375	275

Fred H. Kanzler

F.W. Kanzler

FWK/jst