

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

TO H.B. Carr AT Burlington DATE April 19, 1973
FROM F.W. Kanzler AT Burlington COPY TO C.H. Brower
W.C. Champion
H.R. Horton
G.W. Leach
SUBJECT Dispersion Resin Air Release ☒ File
Reference: Memo H.B. Carr from F.W. Kanzler,
dated March 23, 1973

Tentative maximum air release specifications have been established. The ranges were arrived at after statistical treatment of the data available based on logarithmic distribution. Table I lists the data obtained by this method. The only resin type which still shows large fluctuations is 1716. This resin type will, therefore, be put on a DAR basis until more data is on hand for further evaluation.

The investigations and tests conducted to explain the erratic air release results gave no conclusive answer to this phenomena. The tabulation of 1716 runs listing preceeding resin types (Table II) seems to indicate the influence of 0565 and 1065 resin types on the 1716 air release. However, high air release values were also found in 1716 lots run after 1730 and 1732 production.

In addition, air release tests were run on 1730 resins spiked with known amounts of tridecanol. Table III lists air release values for 0, 1, 2 and 3 percent tridecanol levels. No great fluctuations are noted.

F.W. Kanzler
F.W. Kanzler

Attachments (3).

FWK/jst

TABLE 1

VACUUM RISE TEST OF AIR RELEASELOGARITHMIC DISTRIBUTION

<u>Resin Type</u>	<u>Plant</u>	<u>Year</u>	<u>$\bar{x}$</u>	<u>Control Limit</u>		<u>Proposed Specification (max)</u>
				<u>Lower</u>	<u>Upper</u>	
0565	B	72	8.19	6.23	10.75	11
1716	B	72	5.33	2.15	13.27	DAR
1730	B	72	5.35	3.63	7.88	8
1732	A	72	2.74	1.64	4.58	5
1732	B	72	2.80	1.79	4.38	5
1738	B	72	2.96	1.93	4.52	5
1738	A	72	3.22	2.09	4.98	5
1742	A	72	2.70	1.69	4.31	5
1742	A	73	2.92	1.75	4.89	5
1755	B	72	7.10	4.29	11.75	11
1757	B	72	7.13	4.61	11.05	11

TABLE II

RESIN TYPES PRECEEDING 1716 RUNS

<u>Date</u>	<u>Lot Number</u>	<u>Air Release</u>	<u>Preceeded By</u>
1/10/72	902001	10	} 0565
1/11/72	902002	7	
1/13/72	902003	7	
1/22/72	902004	3	} 1730
1/24/72	902005	3	
2/23/72	902006	5	} 1065
2/24/72	902007	10	
3/4/72	902008	4	} 1730
3/5/72	902009	6	
4/3/72	902012	5	} 1757
4/4/72	902013	4	
10/29/72	902034	7.5	} 1730
10/31/72	902035	4	
11/11/72	902036	5	} 1730 & 1732
11/12/72	902037	5	
11/13/72	902038	5.5	
12/18/72	902039	5	} 1755
12/18/72	902040	3.5	
12/18/72	902041	4	
1/13/73	903001	2.5	1730
2/8/73	903002	5	} 1732
2/9/73	903003	6	
3/22/73	903004	3.5	1732
3/26/73	903005	4	} 1732 & 1730
3/26/73	903006	5	

TABLE III

VACUUM RISE TEST OF AIR RELEASE
ON RESIN SPIKED WITH TRIDECANOL

<u>% Tridecanol Spiked</u>	<u>Air Release</u>
0	4
1	3
2	2
3	3.5