

# Record of Letter Ballot Review by TC Chapter for Procedural Review

Region/Locale: **North America**

Global Technical Committee: **Liquid Chemicals**

TC Chapter Cochairs: **Don Hadder (INTEL), Laura Ledenbach (Peroxy Chemicals), Steve Rogers (KMG Chemicals), Koh Murai (MegaFluid Systems)**

Standards Staff: **Inna Skvortsova**

	Scheduled in Background Statement	Actual
Date	11/05/2019	11/05/2019
Location	SEMI HQ, Milpitas CA	SEMI HQ, Milpitas CA
Reason for Change of Date and/or Location (if changed)		

Note: See *Regulations* ¶ 9.5 Exceptions for allowable reason to change.

## I. Document Number and Title

Document Number	Document Title
6490	Revision to SEMI C93-0217 GUIDE FOR DETERMINING THE QUALITY OF ION EXCHANGE RESIN USED IN POLISH APPLICATIONS OF ULTRAPURE WATER SYSTEM

## II. Tally

Standards staff to fill in.

Voting Tally: **As-cast tally after close of voting period**

Note: A minimum of 60% of the Voting Interests that have TC Members within the global technical committee that issued the Letter Ballot must return Votes. (*Regulations* ¶ 9.6.2.1.1)

Voting Tally (with example values):

Voting Interest:	Returned Votes	Distribution	Return Rate	
Letter Ballot	69	÷ 113	= 61.1%	≥60%
Intercommittee Ballot	15			
Voting Interest Reject(s)	0	Total Voters with Rejects		0
Voting Interest Accept(s)	36			

Note: See *Regulations* § 3.2.1 for definition of Voting Interest.

**III. Rejects**  
None

**IV. Other Technical Issues**  
None

**V. Comments**

**V- (i) Voters' Comments**

**Commenter 1 (Chan, Qilin/ 3M) - Comment 1**

<b>Comment</b>	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	<i>Minor changes suggested:</i> (1) Table A2-6 does not report uncertainty for the metal concentrations. It does not explain the '*' sign. It leaves tungsten(W) blank in resin B. (2) Tables A2-1, Figures A2-1, A2-2. These data do not show the lower limit of quantification, and the data at high flush volume appear very noisy and questionable.	
<b>Action</b>	The TC Chapter agreed to do one of the following actions.	
	*No motion is required in this step.	
	<input type="checkbox"/>	Already addressed by Commenter #, Comment #
	<input type="checkbox"/>	No further action was taken by the TC Chapter.
	<input type="checkbox"/>	Refer to the TF for more consideration.
	<input checked="" type="checkbox"/>	New Business
	<input type="checkbox"/>	Editorial Change
Options for editorial change (check one)	<input type="checkbox"/>	<b>Case 1: No vote in this section:</b> <b>To be included and voted on as a group in § VI. Editorial Changes Other than Those Voted on in § V.</b>
	<input type="checkbox"/>	<b>Case 2: Voted in this section:</b> <b>Original section number and at least one full sentence are required in "FROM" and "TO" fields.</b>
	<input type="checkbox"/>	
	<input type="checkbox"/>	

**Commenter 2 (Futatsuki, Takashi / Organo) - Comment 1**

<b>Comment</b>	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	<i>One anxiety that one of the analysis method referred in the Guide can be achieved by the instrument commercially available from only one company in the world.</i>	
<b>Action</b>	The TC Chapter agreed to do one of the following actions.	
	*No motion is required in this step.	
	<input type="checkbox"/>	Already addressed by Commenter #, Comment #
	<input checked="" type="checkbox"/>	No further action was taken by the TC Chapter.
<input type="checkbox"/>	Refer to the TF for more consideration.	

		New Business
		Editorial Change
	Options for editorial change (check one)	Case 1: No vote in this section: To be included and voted on as a group in § VI. <i>Editorial Changes Other than Those Voted on in § V.</i>
		Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.

**Commenter 3 (Yokoi, Ikunori / Kurita) - Comment 1**

Comment	*TF/TC Chapter to fill in section/paragraph #, if necessary.	
	<i>Use the same resin sample ID (1-6 or A-F, spool or baseline or blank). It is inappropriate as a standard document.</i>	
Action	The TC Chapter agreed to do one of the following actions.	
	*No motion is required in this step.	
		Already addressed by Commenter #, Comment #
		No further action was taken by the TC Chapter.
		Refer to the TF for more consideration.
	X	New Business
		Editorial Change
	Options for editorial change (check one)	Case 1: No vote in this section: To be included and voted on as a group in § VI. <i>Editorial Changes Other than Those Voted on in § V.</i>
		Case 2: Voted in this section: Original section number and at least one full sentence are required in "FROM" and "TO" fields.

*This table is needed for each Comment accompanied a Vote*

**VI. Editorial Changes Other than Those Voted on in § V**  
**None**

**VII. Approval Conditions Check**

**VII. - (i). Approval Rate**

**APPROVAL CONDITION 1:** All Negatives have been discussed and were withdrawn, found not related, found not persuasive, or addressed by a technical change. (*Regulations ¶ 9.6.2.1.2*)

**APPROVAL CONDITION 2: At least 90% of the sum of valid Voting Interest Accept and Voting Interest Reject Votes must be Accept. (Regulations ¶ 9.6.2.1.3)**

**Note: If both approval conditions are not satisfied, the Document fails.**

		Accepts		(Accepts + Valid Rejects)				
Approval Rate	=	36	/	36	=	100.0%		≥90%

## VII. – (ii) Approval Level (check one)

**Note: See Regulations § 9.6.2 for further information.**

**Globally Approved (No Ratification Ballot needed):**

The Letter Ballot meets the Letter Ballot approval conditions for the global technical committee.

**Need a Ratification Ballot:**

The Letter Ballot meets the Letter Ballot approval conditions for the TC Chapter and a Ratification Ballot will be issued to validate technical changes.

## VIII. Safety Check

**Note: See Regulations § 15 for further information.**

Motion	<input checked="" type="checkbox"/>	<b>This is not a Safety Document</b> , when all safety-related information is removed, the Document is still technically sound and complete. (Regulations ¶ 8.7.1)
	<input type="checkbox"/>	<b>This is a Safety Document</b> , when all safety-related information is removed, the Document is not technically sound and complete. (Regulations ¶ 8.7.2)
	<input type="checkbox"/>	Safety Checklist (Regulations ¶ 15.3) is complete and has been included with the Document throughout the balloting process. (Regulations ¶ 15.1.2)
	<b>Motion by/2<sup>nd</sup> by</b>	Slava Libman (FTD Solutions) / Koh Murai (Mega Fluid Systems)
	<b>Discussion</b>	None
	<b>Vote</b>	8 Y-0 N; Motion <u>passed</u>

## IX. Intellectual Property (IP) Check

**Note: This Letter Ballot may cover all or part of a Standard or Safety Guideline. Regardless of the coverage, this IP check applies to the entire Standard or Safety Guideline\*. See Regulations § 16 for further information.**

X	The TC Chapter meeting chair asked those participating, if they were aware of any patented technology that might be relevant (see <i>Regulations</i> ¶ 16.3.1.1) to the Standard or Safety Guideline; or, any copyrighted items or trademarks that are used/reproduced (see <i>Regulations</i> ¶ 16.4.1.2) in the Standard or Safety Guideline. (Also see, <i>Regulations</i> § 8.8)			
X	The question is NOT answered in affirmative (No potentially material patented technology or use/reproduction of copyrighted items/trademarks is known.)	<b>GO TO SECTION X.</b>		
	The question is answered in affirmative	Is any of the known IPs a patented technology?	Yes, at least one of them is a patented technology	<b>GO TO IX (a) “Patented Technology” subsection</b>
			No	<b>GO TO IX (b) “Copyright items” subsection</b>

## X. Action for This Document

<b>Motion</b>	X	This Document passed TC Chapter review as balloted and will be forwarded to the ISC A&R SC for procedural review.	
		This Document passed TC Chapter review with editorial changes and will be forwarded to the ISC A&R SC for procedural review.	
		This Document passed TC Chapter review with technical changes and with or without editorial changes and will be forwarded to the ISC A&R SC for procedural review. A Ratification Ballot will be issued to verify the technical changes.	
		This Document failed TC Chapter review and will be returned to the TF for rework.	
		This Document failed TC Chapter review and work will be discontinued.	
<b>Motion by/ 2<sup>nd</sup> by</b>		Slava Libman (FTD Solutions) / Koh Murai (Mega Fluid Systems)	
<b>Discussion</b>		None	
<b>Vote</b>		8 Y-0 N	
<b>Final Action</b>		X	Motion passed
			Motion failed

**Note: If the use of PMPT or copyrighted item is justified by the TC Chapter, LOA or release form must be received before publication can proceed.**