



## Test Monitoring Center


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MEMORANDUM: 26-009

DATE: May 16, 2026

TO: EOEC Mailing List

FROM: John Loop 

SUBJECT: Update of EOEC (ACM) Polyacrylate Elastomer Reference Test Targets

The Engine Oil Elastomer Compatibility (EOEC) surveillance panel met three times between 14 April 2026 and 7 May 2026 to discuss recent calibration test results using ACM Batch Code 34 elastomer. Recent results from Batch Code 34 elastomer were found to have a significant shift in Volume Change performance, resulting in a high number of failed calibration tests. Based upon a large sample size of calibration data comprising of runs using SL107 reference oil and ACM elastomer Batch Codes 19 through 34, the surveillance panel decided to update the Volume Change targets (mean and standard deviation) so that they would better align with where calibration test results are observed.

On 7 May 2026, the surveillance panel, using a statistical analysis of 779 calibration tests, unanimously approved new Volume Change targets for EOEC calibration tests. The targets for Hardness, Tensile Strength and Elongation are unchanged. A summary of the approved ACM (EOEC) calibration targets is shown below.

### ASTM D7216: ACM Polyacrylate (EOEC) Targets

ACM (EOEC) Elastomer Testing	Volume Change	Hardness Change	Tensile Strength Change	Elongation Change
Mean	+1.62	-0.01	+0.36	-22.58
Standard Deviation	0.46	1.80	8.04	8.94
Observations (n)	779	16	16	16

The new Volume Change calibration targets are effective as of 7 May 2026.

The Volume Change Correction Factor of +0.19 is unchanged and remains in effect for both candidate and calibration test results.

<https://www.astmtmc.org/ftp/docs/bench/eoec/memos/mem26-009.pdf>

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