



## Test Monitoring Center

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**MEMORANDUM:** 07-002

**DATE:** January 19, 2007

**TO:** Engine Oil Elastomer Compatibility (EOEC) Surveillance Panel

**FROM:** Scott Parke

**SUBJECT:** January 2007 Update to Adjusted Specification Limit Standard Deviations

The within-lab and overall standard deviations used to calculate the Adjusted Specification Limits have been updated (see following page). This is the scheduled quarterly update to these figures as agreed in the January 6, 2005 teleconference. The figures are effective for tests completing on or after January 22, 2007. These figures will be maintained on the TMC website at:

[ftp://ftp.astmtmc.cmu.edu/refdata/bench/eoec/Adjusted\\_Specification\\_Limit\\_Standard\\_Deviations.txt](ftp://ftp.astmtmc.cmu.edu/refdata/bench/eoec/Adjusted_Specification_Limit_Standard_Deviations.txt)

In the same teleconference, the TMC was asked to provide test-by-test figures as a monitoring tool. These figures are available, by-elastomer, on the TMC website at:

Fluoroelastomer	<a href="ftp://ftp.astmtmc.cmu.edu/refdata/bench/eoecf/data/statistics.txt">ftp://ftp.astmtmc.cmu.edu/refdata/bench/eoecf/data/statistics.txt</a>
Nitrile	<a href="ftp://ftp.astmtmc.cmu.edu/refdata/bench/eoecn/data/statistics.txt">ftp://ftp.astmtmc.cmu.edu/refdata/bench/eoecn/data/statistics.txt</a>
Polyacrylate	<a href="ftp://ftp.astmtmc.cmu.edu/refdata/bench/eoecp/data/statistics.txt">ftp://ftp.astmtmc.cmu.edu/refdata/bench/eoecp/data/statistics.txt</a>
Silicone	<a href="ftp://ftp.astmtmc.cmu.edu/refdata/bench/eoecs/data/statistics.txt">ftp://ftp.astmtmc.cmu.edu/refdata/bench/eoecs/data/statistics.txt</a>
Vamac	<a href="ftp://ftp.astmtmc.cmu.edu/refdata/bench/eoecv/data/statistics.txt">ftp://ftp.astmtmc.cmu.edu/refdata/bench/eoecv/data/statistics.txt</a>

Please be careful not to confuse the test-by-test figures with the quarterly figures. Do *not* use the test-by-test figures to compute Adjusted Specification Limits.

SDP/sdp /mem07-002.sdp.doc

c: <ftp://ftp.astmtmc.cmu.edu/docs/bench/eoec/memos/mem07-002.pdf>

Distribution: email

**Adjusted Specification Limit Standard Deviations**  
**Effective: January 22, 2007**

Elastomer	Parameter	Within Lab STD	Overall STD	Total Individual Determinations
FLUROELASTOMER	Volume	0.16	0.19	1341
FLUROELASTOMER	Hardness	1.53	2.13	1287
FLUROELASTOMER	Tension	4.91	5.37	1349
FLUROELASTOMER	Elongation	8.15	10.15	1328
NITRILE	Volume	0.71	0.73	1358
NITRILE	Hardness	1.50	1.71	1306
NITRILE	Tension	8.45	8.69	1346
NITRILE	Elongation	6.99	7.12	1352
POLYACRYLATE	Volume	0.73	0.76	1384
POLYACRYLATE	Hardness	1.73	1.75	1334
POLYACRYLATE	Tension	9.84	9.89	1361
POLYACRYLATE	Elongation	11.31	11.44	1365
SILICONE	Volume	1.97	2.17	1361
SILICONE	Hardness	1.30	2.32	1289
SILICONE	Tension	6.65	6.69	1345
SILICONE	Elongation	9.81	9.99	1360
VAMAC	Volume	1.97	2.33	612
VAMAC	Hardness	1.19	1.20	592
VAMAC	Tension	9.42	9.75	598
VAMAC	Elongation	11.80	12.35	607