



MEMORANDUM: 26-019

DATE: August 26, 2026

TO: OSCT Surveillance Panel

FROM: Brad Transue

SUBJECT: Reference Oil 170-1 and 172 Established Targets

During the in-person Surveillance Panel meeting held on August 12, 2026, the OSCT Panel approved the following reference oils for use.

- 170-1 for Nitrile
- 172 for Nitrile, Polyacrylate, and Fluoroelastomer.

The effective date for these changes is August 26, 2026. The tables below highlight the updated targets for both reference oils.

ELONGATION
Unit of Measure: Percent

Reference Oil	Elastomer	Mean	Standard Deviation
160-1	Polyacrylate	23.04	14.289
160-1	Fluoroelastomer	-47.65	5.506
161-1	Polyacrylate	68.88	17.850
161-1	Fluoroelastomer	-34.57	6.989
161-1	Nitrile	10.43	10.691
162	Nitrile	-65.35	7.330
168	Nitrile	-74.52	6.965
169	Polyacrylate	49.2	21.82
169	Fluoroelastomer	-39.5	6.99
169	Nitrile	-16.2	10.69
170	Nitrile	-70.68	3.007
170-1	Nitrile	-44.0	4.027
171/171-1	Polyacrylate	25.090	11.415
171/171-1	Fluoroelastomer	-47.949	5.947
172	Nitrile	-17.4	8.34
172	Fluoroelastomer	-40.3	10.44
172	Polyacrylate	26.1	12.10



SHORE HARDNESS
Unit of Measure: Points

Reference Oil	Elastomer	Mean	Standard Deviation
160-1	Polyacrylate	-1.8	1.16
160-1	Fluoroelastomer	1.6	1.36
161-1	Polyacrylate	-24.9	2.83
161-1	Fluoroelastomer	1.6	1.30
161-1	Nitrile	-16.1	2.18
162	Nitrile	2.0	2.03
168	Nitrile	3.0	1.89
169	Polyacrylate	-16.0	2.83
169	Fluoroelastomer	0.1	1.30
169	Nitrile	-8.6	2.18
170	Nitrile	1.500	0.718
170-1	Nitrile	-0.508	1.848
171/171-1	Polyacrylate	0.223	1.858
171/171-1	Fluoroelastomer	0.987	1.664
172	Nitrile	-5.6	0.61
172	Fluoroelastomer	-2.3	0.99
172	Polyacrylate	-8.5	0.76

VOLUME CHANGE
Unit of Measure: Percent

Reference Oil	Elastomer	Mean	Standard Deviation
160-1	Polyacrylate	0.343	0.4473
160-1	Fluoroelastomer	2.053	0.4075
161-1	Polyacrylate	19.624	1.4348
161-1	Fluoroelastomer	6.199	0.7080
161-1	Nitrile	18.444	1.7057
162	Nitrile	2.460	1.5821
168	Nitrile	1.326	1.4730
169	Polyacrylate	13.1	1.43
169	Fluoroelastomer	4.4	0.71
169	Nitrile	11.8	1.71
170	Nitrile	2.325	0.341
170-1	Nitrile	2.591	0.271
171/171-1	Polyacrylate	-0.088	1.096
171/171-1	Fluoroelastomer	2.167	1.201
172	Nitrile	7.6	0.62
172	Fluoroelastomer	4.6	0.50
172	Polyacrylate	7.9	1.20



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