

# OSCT Surveillance Panel Meeting Minutes

6/21/2006

**D. Bell**

**Meeting Attendance (present for ASTM & LRI meetings unless otherwise noted):**

B. Sullivan (ExMo)	D. Lind (TMC)
D. Bell (Afton)	S. Rea (Infineum)
M. Follis (Dana)	J. Gropp (Lz)
D. Bartlett (Lz)	C. Schenkenberger (Lz)
D. Smith (Parc)	C. Koglin
T. Marougy (Eaton)	F. Farber (TMC, 6/21)
R. Burrows (Afton)	H. De La Fuente (SWRI)

A motion was passed unanimously (5 approved/0 opposed/0 abstention) to approve the previous two sets of meeting minutes, 5/3/06 and 5/30/06, available on the TMC website.

The Test Engineering Institute (TEI) orders new elastomer batches for immersion testing from Freudenberg NoK with a note alerting TMC, Lz, and SWRI of the elastomer identities and types that were ordered. TEI noted that in the past, 600 fluoroelastomer slabs may have consisted of 3 different lots since they were mixing lots from time-to-time when ordering the maximum 200 slabs from Freudenberg's Cleveland, GA plant that has a kneader (mixer) that is a bottleneck to producing >200 slab batches. TEI was instructed not to allow batches of elastomers to be mixed for improved quality control. TEI can currently get 600 slab batches of the same lot of polyacrylate and nitrile from Freudenberg's LaGrange, GA plant that has a much larger kneader capacity. LaGrange facility has offered to make a larger batch (350 slabs, greater than the 200 slabs max. from Cleveland plant) of fluoroelastomer. We instructed TEI to order the 350 slabs of Fluoroelastomer from the LaGrange plant. SWRI and Lz have agreed to conduct testing to approve the batch.

Test labs need to alert TEI when they are getting low (<50 slabs) of an elastomer to allow for TEI to order them and allow for a ~5 week delivery period.

Freudenberg has the following specifications for nitrile and polyacrylate that must be met prior to release from their plant:

	<u>Polyacrylate</u>	<u>Nitrile</u>
• Rheometer	gates on graph & report	gates on graph & report
• Hardness	75-85	70-75
• Gravity	1.385-1.405	1.490-1.510
• Tensile Strength	65-100	120-170
• %Elongation	80-120	350-550

At the Feb. 7, 2006 OSCT SP meeting the panel approved a new protocol for qualifying new batches of elastomers as of 3/1/06. The following new elastomer batches have been approved via the new protocol:

-600 polyacrylate T-599, batch PA336	TMC ref. oil: TMC 160 & 161
-400 nitrile A-727, batch NI331	TMC ref. oil: TMC 161 & 168
-600 fluorocarbon F-979, batch FL368	TMC ref. oil: TMC 160 & 161

The new protocol was revised slightly to require the use of 12 coupons for qualifying new batches, instead of only 6, to gather more data to increase confidence for approval.

OSCT Reference oil TMC 162 for nitrile seals has been depleted. As per an earlier approved motion, SWRI & Lz continue testing TMC 168 as a potential replacement for TMC 162 and running TMC 161-1 ref. oil side-by-side with 168 until both labs collect 5 results to set acceptance bands. Within the next month both labs will have sufficient data to vote on approval of TMC 168 and set acceptance bands, so a SP meeting will be called to fully approve TMC 168 as a new nitrile reference oil.

Since a significant amount of each elastomer is consumed for referencing only, the OSCT Surveillance panel approved a motion made by J. Gropp and 2<sup>nd</sup> by B. Grinfield (5 approved/0 opposed/1 abstention) to reduce referencing by requiring only 1 reference oil, instead of 2, to be conducted with each batch of candidates and switching between the 2 approved reference oils for the specific elastomer. Motion was made effective 6/21/06.





# OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

Date: June 21, 2006

Initials	V = Voting NV = Non-Voting	Name	Company & Address	Phone / FAX / e-Mail
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	V	Boris Dinzberg	CR Industries 900 N. State Elgin, IL 60120	Phone: 847-742-7840 FAX: 847-742-7845 e-Mail:
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# OIL SEAL COMPATIBILITY SURVEILLANCE PANEL

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