

A. W. M. Coaker - Res 3

March 6, 1968

Oakville (MOCAN) Test Results
on Santicizer 1170 (TOTM)

C. D. Bias - Res 3

→ J. R. Darby - Res 1

E. C. Wilde - EWILD

L. D. Press - LPRES

The test used by MOCAN for oil resistance does not seem to me to be the most severe test in its category.

For instance, UL-83 requires "Oil Resistant - 60°C." THW and THWN wire insulation to be subjected to 96 hours in ASTM #2 oil at $100 \pm 1^\circ\text{C}$.

UL-62 requires 168 hours immersion in oil at $60 \pm 1^\circ\text{C}$. for oil-resistant Class 11 thermoplastic jacket in the categories SVTO, SJTO or STO.

Canadian Standards Association calls for only 4 hours immersion in 70°C . oil for jacket, which is very mild by comparison with Underwriters' Requirements.

ASTM specifies 4 hours immersion at 70°C . in a couple of their specifications (like CSA).

Chuck and I see nothing wrong with the numbers obtained by MOCAN. In interpreting them, however, bear in mind that vinyl formulas plasticized with TOTM or 610-TM usually fail a severe oil immersion test. Also note that the S-409/DTDP formula was slightly lower in modulus (softer) than the other three.

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