

5HSRUW 1R 1&3 53

Ap5H• 11!

3DJH RI

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,QWURGXFWRQ

7KLV UHSRUW FRQVHLOQF\ WKH\ WROXNDXOMRURRUO\ \$GYDQFHG
 &RPSRVLWHV *URXS 070 5: ,0. ,0 81, 0+ FXW\HH F
 FRPSDUHG WR WKH 80 WKXIUWDP\H PH WRDU IDQG 0 R LQDPWLQ PDV
 SURSHUW\ EDWQ K B Q HUDWRGHZLWLK)\$\$\$KSRKILQO\$3URMHFW
 1XPEHU 63 : , 4 DQG B B VHTPKIHWH MHQW\$R3XWMDQEBULQ 1&
 2SHUDWLQJ 316BFHG XUKH WHVW SDQH OVQGVVWVWVSHHFLXPSVQK D
 EHHQ FRQIRUPHG E\ WKHV)\\$L DQKGDWKEHHWQKZIL)\\$SHVVHG E\

7KH PDWHULDO ZDV* SODRFXWHDGOV6S H\$&LILFDW5RQLS\$8*RO \$
 GDWHG -DQXDU\ HQW\$Q1&\$TQ3LPDWHULLDQ 106SHFLILKDW
 EHHQ F7HGL Z'DRUAVEF EQWDLDO 6SHFLILFAP0 E@P@A lp D. M HAV

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7KH 1&\$03 VKDUHG PDWHULDO DSDUHQFH WDLRSHUFDVGHUWLDORIS
FRPPRQ XVHIXOQHVV WIRDDZRGSIDUHQSHUMHFKVHGDMZHPB\ Q
IXOILOO DOO WKH GSHHMIHF SUSRSHUHQMLV BQFLQRBWH DUFK
DQG ORDGLQJ VLWXLGXDROQSUVKIDVWLVAQLGGLWDRQDHOXLHVWL

\$LUFUDIW FRPSDQLHV VKRXOG QRW SRHWWZHVGKDRKDV SXSEOFFLV
1&\$03 0DWHULDO 6SHFLILFDWLRQ 1KDV DGGLTXLLRQHPHQWV V
DUH OLVWHG LQ LWVFRQMSURHOJ SRURXPHQMF L3&FDWLRQU ILEHU
DQG RWKHU UHZ PDLRQVLDQGVSRIFLZKFDHQWLSFOVFXHVOLW\FR
RQ WKH UHZ PDWHULDOVDDQEDQXZDFWXLGLSURIHAYSRMQW D

*companies and certifying agencies should assume that the material property data
published in this report is not applicable when the material is not procured to NCAMP*

Material Specification NMS 451/6 106 LV DIUHH SXEOLFO\ DYDLODE
SURSULHWDU\ DHURVSDFH LQG XVWU\ PDWHULDO VSHFLILFD

7KH XVH RI 1&\$03 PDWHULDOVSHHGISEDVKLDRQVGRHHVPOHMMUJL
VWUXFWXUDO SHUIRUPDQFHV KOPXOHUEIDGEOV LHYHDOXLDVROU P
SHUIRUPDQFH DQG TXDOLWORMQDORQVGHHWROSHUSRWPKDVHU
TXDOLW\FRQWUROJSHVWRG LSHHTRULDIDOMQVWDCGLSDURQLFLS
PDWHULDO FKDQJH PDGHJHFRQGXFDVFLVLRVWVWVLRQWERO SDQ
FRQGXFWLQJ UHJXODU VXSSOLHU DXGLWV

7KH X vU •€ @Q ,DXWHVWS

DQsQĐÀ` @ ð p0P€ ðÀpÀLHQW PA@ð0`À€ pO À`Hp € À@ ...p€`p0 €•#P`

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7\SH , DQG 7\SH , , (UURUV

	<i>Materials are equal</i>	<i>Materials are not equal</i>
<i>Conclude materials are equal</i>	<i>Correct Decision</i>	<i>Type II error</i>
<i>Conclude materials are not equal</i>	<i>Type I error</i>	<i>Correct Decision</i>

)LJXUH 7\SH , DQG 7\SH , , HUURUV

\$V LOOXVWUDWHIGHUQ)DUHUIRXU SMRVWLZROFRPXUMIFRVPFRQFOX
 DQG WZR HUURQHRXV FRQFOXVLRQV 7\PHVZV\SHR,QDQFRQF
 ,, HUURUV WR GLVKMLSUREDELOLWY RZ HPDNRQJLW WSIFLILHG
 SDUDPHWHU BDOOHZGLDHSWKH W\SHO\, FRPUSXUWHG QRWF RQWU
 7KH WHUP μVXIILFLHQWKA XQDYLRXOXYS DLQD PUD\$KSPHDFQVH
 WHUPLQRORJ\ WKH SURPESXELHQG W\HRHWWKDWLW\WKLPFS WQ BQ R
 QXOO K\SRWKHVLV LV OHVV WKDQ .

)RU HTXLYDOHQF\ WHLWWLQDWRHFRPSRZK LFK VFRW UHW SRQG V
 FRQILGHQFH OHYHODRIV WKDMLVIPZH DQGM M DW WKKH VQXRO EDWH
 DUH QRW HTXLYDOHQF\ ZLSVKUWHF S EDO LWH WKK DWK W KSLRE D
 GHFLVLRQ LV QR OHVV WKDQ

&XPXODWLYH (UURU 3UREDELOLW\

(DFK FKDUDFWHU\LRQVILFWXGLQD DV7HQQLRQDQW U6KHJ\WKPRIG X
 LV WHVWHG VHSU\SDUREDELOLWYHRWVHWKSHV,DFHURU DOO WH
 WKHP 7

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/RQJLWXGLQDO
&RPSUHVLRQ

0RGXOXV

/RQJLWXGLQDO
7HQVLRQ

0RGXOXV

6WUHQJWK

0RGXOXV

6WUHQJWK

6WUHQJWW•%/, \ 1Á L R34R`!g G 3e TDY%! Q`EV` J W Rs9!) 0) D L Ap p X O X V

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,Q 30DQH 6KH DU ,36

7KH ,Q 30DQH 6KH DRUBD D D J H G Q R W Q Q J R I K V G H W D W S D H V H G
HTXLYDOHQF\ IRU WKFR & G' L D Q B Q (7 : E X W F O R Q G L W U R V Q K H 7 5 7 H
VWUHQJWK D W D W D V D Q D L W G H W B G E R O W K L Y D I O H G F H T R X U D O O W K
HQYLURQPHQWDO FRQGLWLRQV WHVWHG

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