

5HSRUW 1R 1&3 53

Ap5H• 11!

3DJH RI

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for REFERENCE



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,QWURGXFWRQ

7KLV UHSRUW FRQVHOOHQW WKH WROXNDXOIRVRRUO\ \$GYDQFHG  
 &RPSRVLWHV \*URXS 070 5: ,0. ,0 81, 0+ FXWOHF  
 FRPSDUHG WR WKH UO WKXIUWDPHF PH WRDU IDQG O R L Q D P L Q P D V  
 SURSHUW\ EDWQ K B Q HUDWRGHZLWLK)\$\$\$KSRKILQO\$3URMHFW  
 1XPEHU 63 : , 4 DQG B D V R H P K I H W H P H Q W \$ R X W M O D Q B B U L Q 1 &  
 2SHUDWLQJ 316B F H G X U K H H W H V W S D Q H O V Q G V W W W W S H H A L X S H Q K D  
 EHHQ FRQIRUPHG E\ W W H V ) \$ . Q J K D W K E H H W K Z I L ) \$ H V V H G E \

7KH PDWHULDO ZDV\* S O D R V F X W I H G O W S H S & L I L F D W E R Q L S & \* R Q \$  
 GDWHG -DQXDU\ H Q \$ Q I & \$ T O X L P D W H U L L R Q 1 O S H F L I L K D W  
 EHHQ F U H G Z O D R U A W E F R E Q W D L D O 6 S H F L I L F A P O E A P A A I p D . M H A V

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7KH 1&\$03 VKDUHG PDWHULDO DSDUHQFH WDLRSHUFDVGHUWLDORIS  
FRPPRQ XVHIXOQHVV WIRDDZRGSIDUFDQSIURMHWKWHVGDZMZHFB\ Q  
IXOILOO DOO WKH GSHHMIHF SUSRSHUHQMLV BQFLQRBWH DUFK  
DQG ORDGLQJ VLWXLGXDROQSURMHWLWV QDGHG WDR QDHO XLHVWL

\$LUFUDIW FRPSDQLHV VKRXOG QRW SRHWWZHVGKDRKDV SXSEOFFLV  
1&\$03 0DWHULDO 6SHFLILFDWLRQ 1KDV DGGLTXLLRQH PHQWV V  
DUH OLVWHG LQ LWVFRQMSURHOJ SRURXPHQMF L3&FDWLRQU ILEHU  
DQG RWKHU UHZ PDVHQVLDQGVSRFLZKFDQWLPSPVHXDOLW\FR  
RQ WKH UHZ PDWHULDOVDDQEDQXZDFWXLGLSURHFWLWVSRM QW 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 LQGXWU\ PDWHULDO VSHFLILFD

7KH XVH RI 1&\$03 PDWHULDOVSHHGISEDVKLRODQWRHIVPDRMMUJL  
VWUXFWXUDO SHUIRUPDQFHV KOPXOHUEBGEWLYHDOXLDVROU P  
SHUIRUPDQFH DQG TXDOLWRMQDORQVGHWHROSHUSRWPKDVHU  
TXDOLW\FRQWUROJSHVWRGISHHTRULDIDOMQVWDGGLSULRQLFLS  
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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8S<sup>3a</sup> ((

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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 7KHVHZR\SHR,QDQFRWR  
 ,, HUURUV WR GLVKMLSUREDELOLWZR RI HDNRQLD WSIFLILHG  
 SDUDPHWHU BDOOHZGLDHSWKH W\SHO\, FRPUSXUWHG QRWF RQWU  
 7KH WHUP  $\mu$ VXILFLHQWQH XQDYLRXOXYS DLQD PUDSHKSPHDFQVH  
 WHUPLQRORJ\ WKH SURPESXELHQG WHRHWWKDWLW\WKLPFSWQEQ R  
 QXOO K\SRWKHVLV LV OHVV WKDQ .

)RU HTXLYDOHQF\ WHLWHLQDWRHFRPSRZKLFK VFRWUDHW SRQGV  
 FRQILGHQFH OHYHODRIV WKDKLVIPZH DQGM EDW WKKH VQZRO EDWH  
 DUH QRW HTXLYDOHQF\ ZLWKUWHVSEEDLWH WKKDWK W KSLRE D  
 GHFLVLRQ LV QR OHVV WKDQ

&XPXODWLYH (UURU 3UREDELOLW\

(DFK FKDUDFWHU\RVILFWXGLQD DV7HQQLRQDQWU6KHJDKPRIGXO  
 LV WHVWHG VHSUUREDELOLWHRWVHWKSHV,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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