



NON FERROUS METAL WORKS

(SA) (PTY) LTD

Reg No. 1951/000559/07

EXTRUSION DIVISION

1 The Avenue East, Prospecton, Kwa-Zulu Natal, South Africa

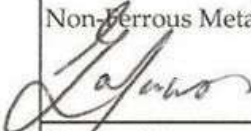
Telephone: +27 31 902 7470 Fax: +27 31 902 8865

TEST CERTIFICATE

Customer: NFM 1 AVENUE EAST PROSPECTON,DURBAN 4110	Test Certificate No:	000/0
	Batch No. (lot No.):	Y1448/Y1452
	Works Order No:	WO00000
	Sales Contract No:	SO000000
	Alloy :	360
Purchase Order No. NFM	Quantity Ordered:	2,000 KGS
	Weight Despatched:	2,000 KGS
Description: ROUND BAR FREE CUTTING BRASS HALF HARD TEMPER	Specification : ASTM B16 C36000 (10) ASTM B249 (12) ASTM E2375 - 08 & MIL-STD 2154 CLASS A	
SIZE: 25.4mm DIA X 3.66 MTR		

MECHANICAL/PHYSICAL PROPERTIES										
Dia mm	Area mm ²	Yield Kg/mm ²	Strength PSI	0.2% P.S. PSI	Tensile Strength PSI Kg/mm ²		Elong %	Hardness		Rockwell B
								Vickers Actual	Brinell Calculated	
20.00	314.20	31.64	44991		57590	40.50	28.00			64.90
19.97	313.26	32.17	45750		58102	40.86	27.00			64.90

CHEMICAL COMPOSITION										
Cu	Zn	Fe	Mn	Al	Ni	Sn	Pb	Si	As	P
61.45	35.40	0.16	0.00	0.00	0.05	0.16	2.69	0.00	0.08	0.00
60.94	35.99	0.17	0.00	0.00	0.06	0.16	2.64	0.00	0.04	0.00

Remarks:		We certify that material is free from Mercury contamination.	
MATERIAL HAS PASSED THE MERCUROUS NITRATE CRACK TEST IN ACCORDANCE WITH ASTM B-154 SPECS [05] WHERE APPLICABLE			
Inv No	NFM	Signed for and on behalf of Non-Ferrous Metal Works (SA) (Pty) Ltd	
VESEL	NFM	 Quality Manager	
QUALITY CONTROLLED COPY		00/00/0000	
		Date	
		 Metallurgist ULTRASONIC TESTED	