Applicable Site(s)	South Africa	Ref.	ZA/003141008		
Subject	NGC TUBE DATA SHEET SOUTH AFRICA	PCN	500000013064	Issue	G1
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Safety count is 3 for each coin

Coin desc/partnumber	NGC tube number	NGC tube base number	Coin Thickness in µm	Coin Diameter in mm	Tube Base Offset		Full Count	Max Fill Count	Tube position restrictions (i.e. not in tube….)
1 Rand 103143009	22	Red	1710	20.1	A	76	96	84	D, E
					B	76			
					C	77			
	728119009	728136012			D	100			
					E	100			
2 Rand 103145008	24	Yellow	1810	23	A	65	91	78	B
					B	100			
					C	98			
	728119004	728133005			D	95			
					E	62			
5 Rand Old 103142018	27	Brown	1740	26	A	64	95	80	B
					B	100			
					C	78			
	728115006	794280001C			D	68			
					E	60			
5 Rand New 103143021	27	Grey	2800	26.1	A	139	59	50	B,C,E
					B	100			
					C	133			
	728115006	728132014			D	142			
					E	100			
10 Cents 103148010	22 SLV 1c	Aztec Gold	1550	16	A	100	106	96	A, D, E
					B	85			
					C	83			
	728119009 793129001 793132001	728134013			D	100			
					E	100			
20 Cents 103146011	20	Lt. Blue	1780	19	A	70	92	82	D, E
					B	70			
					C	78			
	728111008	794604001			D	100			
					E	100			
50 Cents 103144017	24	Yellow	1900	22	A	82	86	75	B
					B	100			
					C	89			
	728119004	728133005			D	85			
					E	79			

Safety count is 3 for each coin

Notes on filling out the Tube Data Sheet

The example below shows a completed row for the US 1c coin

Coin desc/partnumber	NGC tube number	NGC tube base number	Coin Thickness in µm	Coin Diameter in mm	Tube Base Offset		Full Count*	Max Fill Count	Tube position restrictions (i.e. not in tube….)
1c	20 728111008	Light Blue 794604001	1512	19.0	A	80	109	96	D,E
					B	68			
					C	90			
					D	71			
					E	71			

Coin Thickness
This figure is used by the Acoustic system in order to calculate coin counts in tubes. It is normally based on the average coin thickness, but may be based on practical measurements.

Tube Base Offset
This is an adjustment used by the acoustic system when measuring an empty tube in order to correct for slight errors in base measurements. Practical measurements and data collection is required in order to determine these figures.
Note: number is offset binary with 100 = 0 offset (i.e. >100 indicates +ve offset, <100 indicates –ve offset)

Full Count
Full Count is the height of the tube divided by the coin thickness
The height of the tube has been defined as 165mm – Steve Boxall 25th Sept 2003-09-26

Max Fill Count
This is the height of the tube minus a coin diameter, divided by the coin thickness (e.g. (full – diameter) / thickness)

Tube Position Restrictions
This is the tube position(s) that this coin cannot be fitted to.

Safety count is 3 for each coin

Issue	Change History	ECN	Date
R1	INITIAL RELEASE	500000004757	May 15th 2007
R2	Offsets actualization for 50 cent and 2 rand	500000005240	July 31th 2007
R3	Restriction in position C added, for 5 New Rand Coin, also the new pigment on 728132014 was updated from Natural to Grey	500000006327	Dec 12 2007
G1	5 R new Base still showing **Natural** should be **Grey 728132014**	500000013064	July 28th 2010