

MATERIAL CERTIFICATION

No.: 29992

567 Northgate Parkway
Wheeling, IL 60090-2682
Phone: (847) 537-3990
Fax: (847) 537-4085

Sold To:

Molex, Inc.

2222 Wellington Court

Lisle IL 60532

Ship To:

Molex

700 Upland

Lincoln, NE 68521

Customer P. O. #	P. O. Date	Customer #	Order #	Date	Page
7388624	9/19/2011	000311	436411 1	9/22/2011	1

435870360

HTD 100% Air Wipe Sn

Wieland K55 (C70250) REv0
C70250 Copper-Nickel-Silicon

TM01S 1/4 Hard Special

Gauge	0.250 mm.	Tol. +	0.005 / -	0.005 mm.	Shipped Quantity
Width	28.000 mm.	Tol. +	0.050 / -	0.050 mm.	4,443 Kgs.
Coating Th	2.000 µm	Tol. +	2.0000 / -	µm	

Actual Chemistry	Unit	Nom.	Min.	Max.	Lot No. ST	Lot No. ST	Lot No. ST	Lot No. ST
					54271	55159	55160	55409
Cu = Copper	%	97.0000			96.9400	96.9500	96.9500	96.7600
Zn = Zinc	%			1.0000	0.1000	0.1000	0.1000	0.3000
Pb = Lead	%			0.0500	0.0500	0.0500	0.0500	0.0500
Fe = Iron	%			0.2000	0.0400	0.0100	0.0100	0.0100
Ni = Nickel	%		2.0000	4.2000	2.3000	2.3000	2.3000	2.3000
Mn = Manganese	%			0.1000	0.1000	0.1000	0.1000	0.1000
Mg = Magnesium	%		0.0500	0.3000	0.0500	0.0700	0.0700	0.0600
Si = Silicon	%		0.2500	1.2000	0.4200	0.4200	0.4200	0.4200

Physical Properties	Unit	Min.	Max.	Lot No. ST	Lot No. ST	Lot No. ST	Lot No. ST
				54271	55159	55160	55409
Tensile Strength	N/mm ²	600.00	780.00	670.00	668.75	668.75	663.75
Yield Strength (.2%)	N/mm ²	500.00	580.00	551.00	552.00	552.00	543.75
Elongation A2"	%	10.00		16.00	16.20	16.20	16.30
Grain Size			0.150	0.010	0.007	0.007	0.007
Bend 180 D Good Way R/T:			0.050		1	1	1
Bend 90 D Good Way R/T:					1	1	1
Sn Tin Coating	%			100.00	100.00	100.00	100.00
Plating Thickness	µm	2.00	4.00	2.39	2.21	2.21	2.44
				3.99	3.71	3.71	3.99
Gauge	mm.	0.245	0.255	0.249	0.249	0.249	0.249

Other Tests	U/M	Min.	Max.	Coils	ST
Width	mm.	27.95	28.05		1
Camber in 6'	mm. in 1.83-m.		1.60		1

Status (ST): 1=Passed, 2=Deviated, 3=Not Passed, 4=Not Traceable, 5 Rem.

Quality Assurance Department

D. S. Shahapurkar