

Bono Corrosion Test Results

Issued date:	June 2004		
Product name :	Sn63/Pb37	NC254	89.5-T3



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Test duration: 15 days

Conditions: 85°C temperature and 85% relative humidity

Sample:

Name	Alloy	Formula
NC254	Sn63/Pb37	89.5-T3

Acceptance Bono Corrosion Test Criteria: Pass if corrosion factor, $F_c < 10\%$

Test results:

CORROSION FACTOR, F_c (%)															
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Track 1	0.00	0.00	1.82	5.46	5.32	6.06	5.49	6.13	1.39	3.14	3.30	2.68	3.40	2.63	3.95
Track 2	0.00	0.00	6.39	7.75	7.36	7.78	7.38	7.81	5.62	7.16	7.56	6.76	7.67	6.70	7.52
Track 3	0.00	0.00	2.55	7.02	6.77	7.51	6.97	7.57	3.99	4.48	5.85	4.67	6.01	4.63	5.83
Track 4	0.00	0.00	4.12	9.48	8.92	9.43	9.13	9.46	5.19	5.55	6.85	6.21	7.00	6.21	8.11
Track 5	0.00	0.00	1.76	8.62	8.33	8.96	8.65	9.01	4.33	4.18	6.26	5.02	6.46	5.00	6.41
Track 6	0.00	0.00	3.11	5.71	6.06	6.69	6.22	6.77	3.81	3.49	5.42	4.88	5.60	4.93	5.80
Track 7	0.00	0.00	3.79	6.25	6.23	6.76	6.35	6.81	4.05	3.59	4.89	4.51	5.00	4.54	6.13
Track 8	0.00	0.00	1.32	7.23	6.83	7.56	7.09	7.61	4.76	4.88	6.18	5.86	6.32	5.90	7.66
Track 9	0.00	0.00	4.36	5.33	5.43	5.93	5.49	5.98	4.51	5.04	5.56	4.66	5.64	4.60	8.08
Average	0.00	0.00	3.25	6.99	6.80	7.41	6.97	7.46	4.18	4.61	5.76	5.03	5.90	5.01	6.61
Control	0.00	0.00	2.61	6.15	5.98	6.97	6.15	7.07	3.29	3.09	3.59	2.63	3.63	2.55	4.87
Icorr (μ A)	3637	3637	3734	3935	3943	3967	3954	3970	3997	4001	4001	3995	4001	3994	4001

$$F_{c_{max}} = F_{c_8} = 7.46\%$$

$$F_{c_{15}} = 6.61\%$$

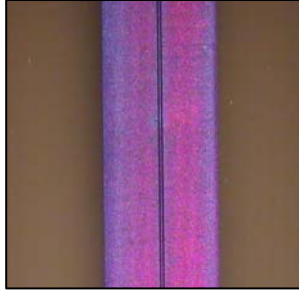
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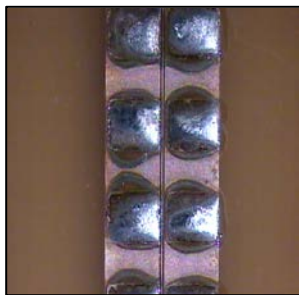
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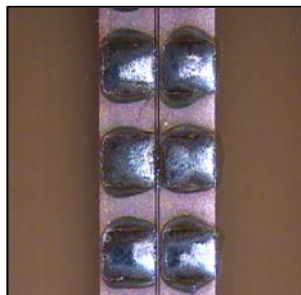
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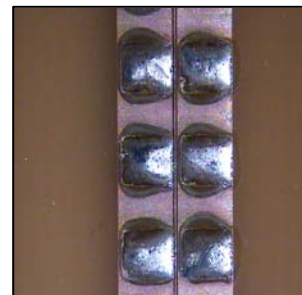
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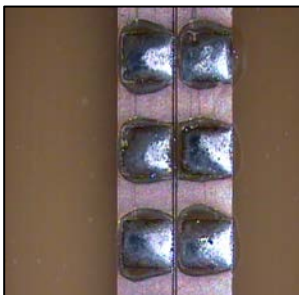
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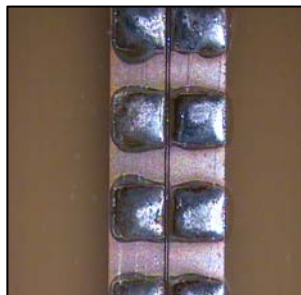
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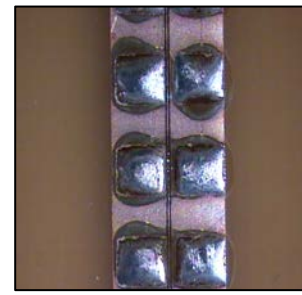
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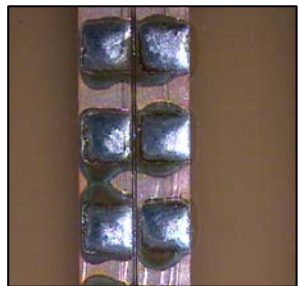
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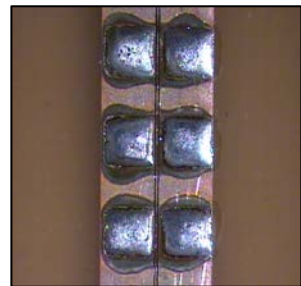
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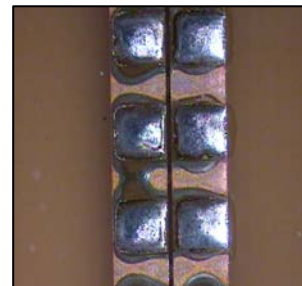
Track 6



Track 7



Track 8



Track 9

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Technical Report

Test conclusion: PASS

The maximum corrosion factor is 7.46% which is below the maximum allowed of 10%.

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A handwritten signature in black ink, appearing to read 'Karl Seelig', is positioned above a horizontal line.

Karl Seelig, Vice President of Technology

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