

REL61™ YOUR SOLUTION FOR INCREASING SILVER COSTS

Achieve SAC305 Reliability While Significantly Lowering Your Costs

Are rising silver prices cutting into your margins—but switching to a low-cost, low-quality alloy isn't the answer? REL61 from AIM offers a better way. Engineered with tin, bismuth, copper, and silver, REL61 delivers the reliability of SAC alloys at a significantly lower cost. REL61 is the proven alternative trusted by manufacturers worldwide to reduce silver exposure without sacrificing performance.



REL61

Available in bar solder, wire solder and solder paste.

Solder Alloy Comparison

| REL61 VS. THE FIELD | SAC305 | REL61 | MOST LOW/ NO-SILVER ALLOYS | SN100C® |
|--------------------------------|----------|------------|-------------------------------|------------|
| COST* | BASELINE | BETTER | BETTER | BETTER |
| HARDNESS | BASELINE | BETTER | COMPARABLE | COMPARABLE |
| THERMAL CYCLING | BASELINE | BETTER | WORSE | COMPARABLE |
| THERMAL SHOCK | BASELINE | BETTER | WORSE | COMPARABLE |
| DROP SHOCK | BASELINE | COMPARABLE | WORSE | COMPARABLE |
| WETTING | BASELINE | BETTER | COMPARABLE | WORSE |
| VIBRATION | BASELINE | COMPARABLE | WORSE | BETTER |
| THROUGH HOLE PERFORMANCE | BASELINE | BETTER | COMPARABLE | WORSE |
| DROSS | BASELINE | BETTER | COMPARABLE | COMPARABLE |
| TENSILE STRENGTH (AFTER AGING) | BASELINE | COMPARABLE | WORSE | WORSE |
| IMC GROWTH | BASELINE | BETTER | COMPARABLE | BETTER |
| LUSTER/AOI PERFORMANCE | BASELINE | BETTER | COMPARABLE | COMPARABLE |
| TIN WHISKER GROWTH | BASELINE | BETTER | COMPARABLE | BETTER |

*Net gain: the cost of filling a pot with REL61 is typically lower than the scrap value recovered from the emptied SAC305.

Customer Success Highlights

By switching from a competitor's **SAC305 T5** to **AIM's M8 REL61 T4 paste**, a customer experienced:

- ✓ Cost savings
- ✓ BTC voiding reduced from 23% to 16%
- ✓ BGA voiding reduced from 12% to 5%
- ✓ Eliminated solder balling
- ✓ Clearer residue

By switching from a competitor's **SAC305** to **AIM's REL61 bar** in their wave soldering process, a customer experienced:

- ✓ Cost savings
- ✓ Excellent performance and barrel fill
- ✓ Drop-in SAC305 replacement positively validated

By switching from a competitor's **SAC305** to **AIM's M8 REL61**, a customer experienced:

- ✓ Improved wetting
- ✓ Improved printing
- ✓ Reduced AOI false readings
- ✓ Clearer residue

When trying **M8 REL61** for a new application involving complex telecom boards with high thermal mass, a customer experienced:

- ✓ Cost savings
- ✓ Minimal voiding
- ✓ Great performance on complex boards

AIM SOLDER
DELIVERS RESULTS

- ✓ Optimize your assembly yield and quality
- ✓ Secure a dependable global supply chain
- ✓ Maintain a technical advantage



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