

# 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

### Customer Success Highlights

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

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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