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# 19-4 Robust Manufacturing Material Evaluation SERV-041 Materials & Consumables Evaluation

## Positioning

Material selection is often the most critical factor influencing long-term manufacturing performance and product reliability.

Drawing on SMT Worldwide's expertise in coatings, dispensing materials, underfills, adhesives, encapsulants, and advanced manufacturing consumables, customers receive objective material qualification support.

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## Objective

- Select optimal materials
- Reduce qualification risks
- Improve reliability
- Compare suppliers objectively

## Material Testing

- Processability evaluation
- Dispensing behavior
- Curing performance
- Adhesion testing

## Reliability Evaluation

- Environmental resistance
- Thermal cycling
- Mechanical stability
- Long-term performance

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## Comparative Analysis

- Supplier benchmarking
- Cost-performance comparison
- Qualification recommendations

## Deliverables

- Material Evaluation Report
- Technical Comparison Matrix
- Risk Assessment
- Qualification Recommendations

## Supported Materials

- Conformal coatings
- Adhesives
- Encapsulants
- Underfills
- Potting compounds
- Process consumables

## Value Added

- Supplier-independent assessment
- Laboratory capabilities
- Real manufacturing validation
- Reliability-focused evaluation