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Challenges Facing Formulated Cleans

Technical Challenges

Device Complexity

Increased Purity Requirements

Formulation Complexity

Speed to Ramp

Commercial Challenges

Product customization

Post ramp support

Supply Chain Management

Economics are challenging future investments



Collaboration Is the Key

- Chemistry can get us where we need to go
- Collaboration is the clear path to success
- Need to consider the differing needs of:
 - Device Manufacturer
 - Formulator
 - Tool Manufacturer



