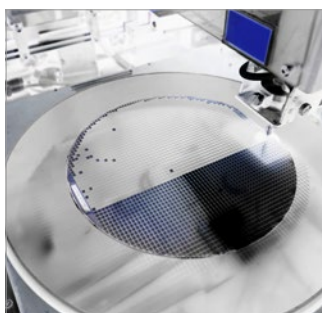




Version: 1 August 2025



# IntraCu<sup>®</sup> Additives



## Take Advanced Packaging to a completely new level

Umicore's business unit Electroplating provides innovative patented additives for copper electroplating into the advanced packaging industry.

IntraCu<sup>®</sup> as a modular Copper electroplating additive system embodies an integral part of our joint product offering. It is manufactured in state-of-the-art clean room environment to meet quality standards of the semiconductor industry.

IntraCu<sup>®</sup> additives can be seen as a POR replacement for Microbumps in IC packages, RDL in wafer level packaging and Pillar in flip-chip packaging.



## Advantages

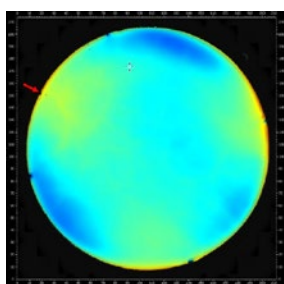
- Bamboo-like structure
- Matte Cu, Ra < 0.2 µm
- Flat topography
- Stable tensile strength
- Resistant to grain growth
- Resistant to etching
- Bright Cu, Ra < 0.03 µm
- ±50% process window for Cu pillar and RDL
- Total in-film organics < 11 ppm
- Excellent KV-less performance

## Applications

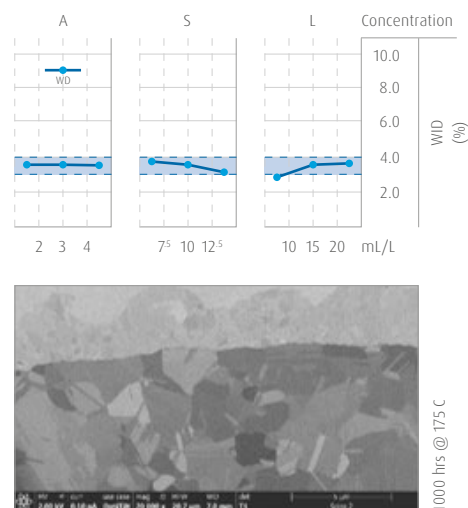
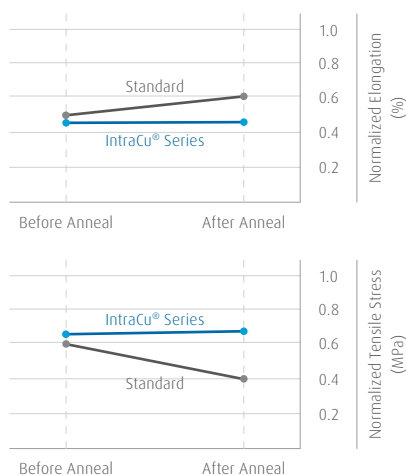
- Fine line RDL (< 2 µm)
- Cu-to-Cu direct bonding
- 2-in-1 bright Cu (Cu pillar and RDL)
- 2-in-1 with KV-less requirement

# IntraCu<sup>®</sup> Additives

## TECHNICAL SPECIFICATIONS



Very low stress of IntraCu<sup>®</sup> SC layers:  
8 inch blanket wafer, plated on one side  
with 20 µm, shows warpage < 10 µm.



## YOUR CONTACT

Do you have a specific question or would you like a no-obligation quote calculation?  
Our specialist will be happy to help you with any technical questions you might have.



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