

● Product List ●

We offer customizable products. We can change the type and thickness of the wafer film based on your demand. Should you have any requests, please contact us.

- Bare Si wafer (100mm, 150mm, 200mm, 300mm)
- Various Blanket wafer (100mm, 150mm, 200mm, 300mm)
 - Cu, Ta/ TaN, W, Ti/ TiN, Al-Cu, SiN, PE-TEOS, HDP, HARP oxide, Poly-Si, Th-Ox, ACL, SiC, SiON,
 - Low-k, ULK, High-k
 - precious metals- Ru, Co, CoEP, Pt, Au
- Resin Material - Photo Resist, Polyimide, EMC, PBO
- Various Patterned wafer (available for 200mm /300mm Wafer)
 - MIT 854/754 Pattern Wafer (W, Cu, Al), MIT 864/764 STI Pattern, ILD Pattern Wafer
 - AMT STI Pattern Wafer (min.0.18um LS)
 - 3D Pattern wafer
 - KrF, ArF Litho, Immersion litho and Etched wafer
 - High-dose Implanted Wafer
 - Bumped Wafer, TSV test wafer, low-temperature TEOS, low-temperature SiN Wafer
 - Cu Hybrid Bonding Wafer
- Fine Trench Pattern Wafer, Hole Pattern Wafer
- Glass Wafer
- We offer measurement services of Si wafer

Advanced Materials Technology, Inc. <https://www.amti.co.jp>



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Advanced Materials Technology, Inc.

AMT Test Wafer Brochure



AMT 180nm STI Pattern Wafer

HDP Oxide complete filling into STI trenches

Center (0.18/0.18um)

Edge (0.18/0.18um)

AMT Proprietary

AMT 180nm SiN-on-Poly Pattern Wafer

LP-SiN complete filling into Poly trenches

Center (0.18/0.18um)

Edge (0.18/0.18um)

AMT Proprietary

AMT Custom BUMP Pattern Wafer

Example Pitch 70/90/150um

50um

50um

50um

Si

We offer BUMP Pattern wafers with customized MASK.

- Photo Resist Pattern
- Cu Pillar BUMP

AMT Proprietary

AMT 180nm W-CVD Pattern Wafer

Mass production technology of TiN/W-CVD fill

Center (180nm)

Center (250nm)

AMT Proprietary

AMT 180nm ECu Pattern Wafer

Mass production technology of ECu fill

Center (180nm)

AMT Proprietary

AMT 180nm ALD-Mo Pattern Wafer

Mo complete filling into TEOS trenches

180nm / 180nm

AMT Proprietary

AMT 3D ILD Pattern Wafer

Large Pattern (10um/3um)

Dense Pattern (10um/10um)

AMT Proprietary

AMT TSV Pattern Wafer - Process Steps

Top Field TEOS 550nm Via Middle

Corner Bottom Coverage >90%

Top Field Ta 80nm Via Middle

Corner Bottom Coverage >10%

Top Field Cu seed fill Via Middle

Corner Bottom Coverage >1%

Cu electro-plating

AMT Proprietary

AMT Fine Trench Pattern Wafer

Center (60/60nm)

Edge (60/60nm)

Center (60/60nm)

Edge (60/60nm)

AMT Proprietary