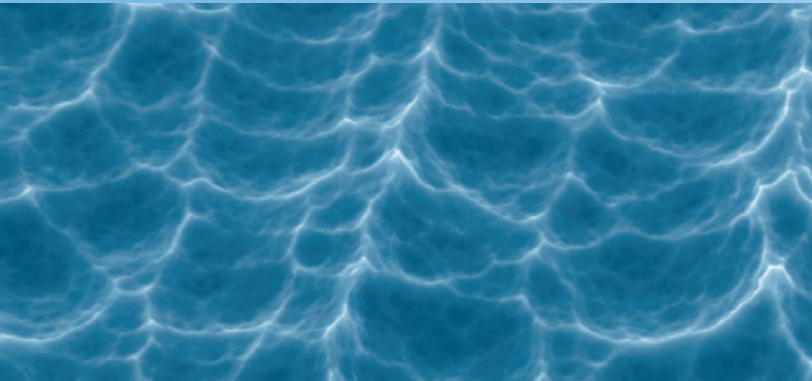


SOLAR dwTEX

R|E|N|A|. 

Metal-free additive texturing for DW mc-Si wafers

dwTex is RENA's additive solution for metal-free texturing of diamond cut multicrystalline wafers. No efficiency loss even for short process times - ready for production up to 5000 wph. Easy integration in existing equipment. Best CoO. RENA dwTEX is based on organic compounds which pose no risk to the environment or health and no additional waste water treatment is necessary.

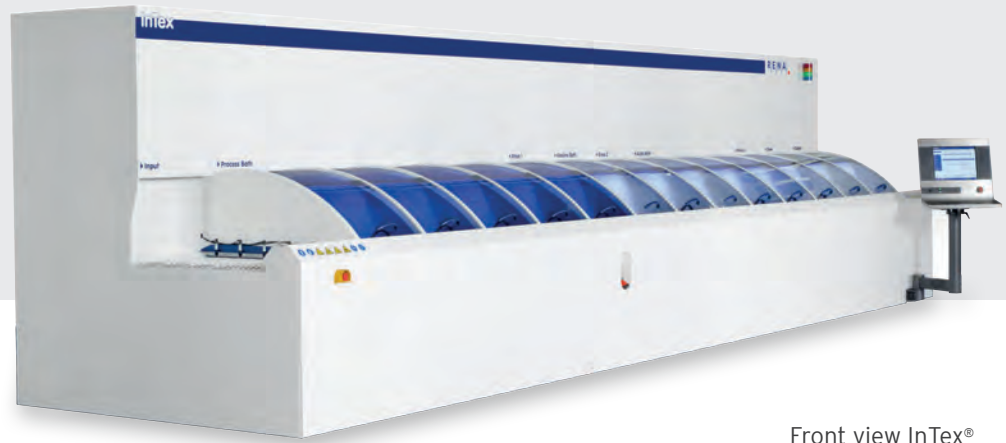
Areas of application

- Texturing of multicrystalline Si-wafers, p- and n-type
- HF/HNO₃ based chemistry
- Inline application in RENA InTex®

Features and benefits

- Metal free texturing process
- Process temperature between 8-12 °C
- No VOC and no handling of EX-risk liquid
- Large process window
- Same process time as without additive
- Lowest Reflectance ~ 22 %
- Cost effective usage of additive - very low dosing rate
- Bath lifetime same as for InTex®
- Environmental-friendly; low organic load in waste liquid, biodegradable





Front view InTex®

Technical Data dwTEX

Bath composition	< 0.125 vol. % dwTEX
Organic components	< 0.02 % in the etching solution
Typical process temperature	8 - 12 °C
Process time	< 80 sec. guaranteed, on InTex® ready for 5000 wph