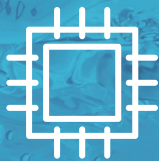


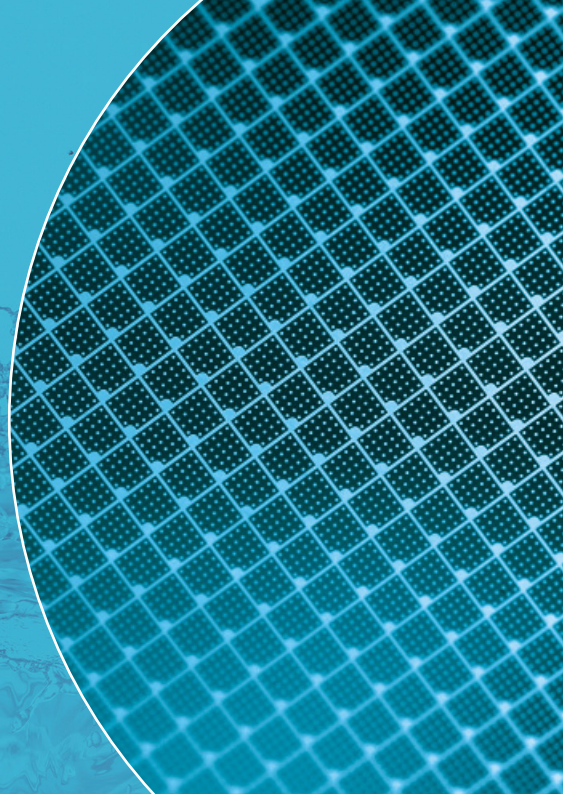


INTELLIGENT FLUIDS

SMART PHYSICAL CLEANING



microelectronics



intelligent fluids®

TYPICAL APPLICATIONS

Equipment Cleaning

Catch Cups, Chambers, Furnaces, Parts

Metal Lift-Off

MEMS, LED, BEOL

Photoresist Stripping

FEOL, BEOL, BE, Photo Mask Applications

Adhesive Removal

Flat Panel Display, Temporary Bonding

Glass and Lense Cleaning

Removal of Oils, Fingerprints and Organics


MADE IN GERMANY



**WELCOME
TO THE
POST-SOLVENT ERA**

YESTERDAY'S CHALLENGES

WASTE
DISPOSAL



ATEX UPGRADE

YIELD

SUBSTRATE
DAMAGE



AGGRESSIVE SOLVENTS

THROUGHPUT

RISK TO HUMAN HEALTH

HIGH ENERGY
CONSUMPTION

TODAY'S ANSWER

WET
PHYSICS



INSTEAD OF

WET
CHEMISTRY

PHYSICAL ACTION REPLACES CHEMICAL REACTION



WATERBASED
NON-INFLAMMABLE
pH NEUTRAL



intelligent fluid

DI Water

1

2

3

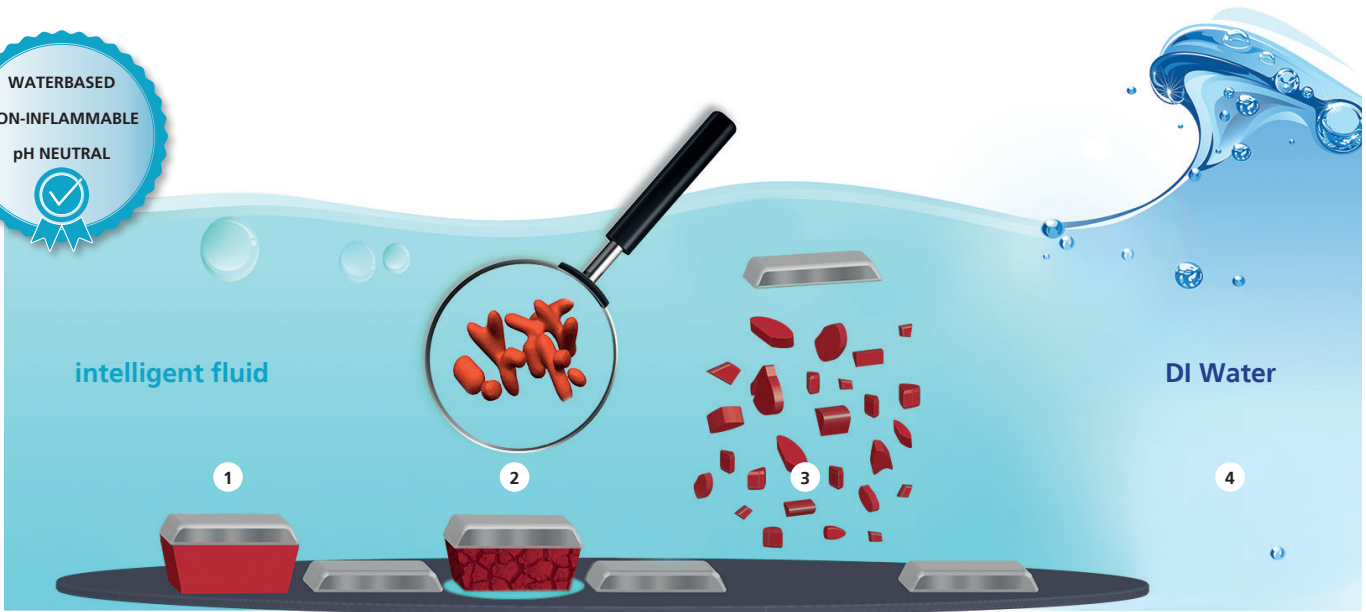
4

APPLICATION

PENETRATION
& UNDERCUT

COMPLETE
LIFT-OFF

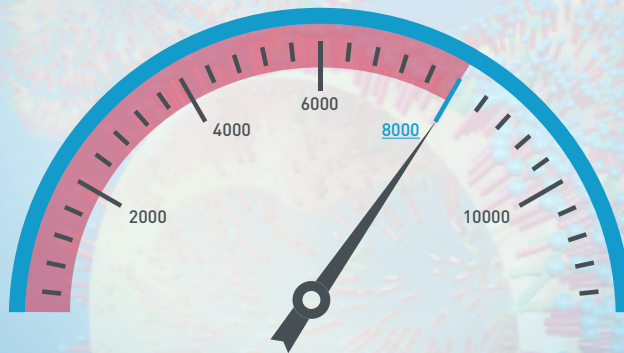
RINSE



HOW DOES IT WORK?

« MICRO-EARTHQUAKE EFFECT »

HIGHLY DYNAMIC MOLECULAR TEAMWORK



moves of plasmicells/second



REPLACEMENT OF

NMP

DMSO

SPM

ACETONE

ETC.

HOW DO YOU BENEFIT?



ENABLING

Solving Current and Future Challenges



ECONOMY

Improved Total Cost of Ownership,
Higher Yield



ECOLOGY

Smart to People, Nature and Materials

WHAT DO EXPERTS SAY?



Thomas Bohn

General Manager
TELTEC

„Intelligent fluids delivers the next generation of stripping and cleaning for semiconductor manufacturing and related industries.“



Don Dussault

General Manager
EUROPE & ASIA PROSYS

„A game changing and EHS-compliant replacement for NMP, Acetone and many other solvents for resist stripping and metal lift-off.“



Tony Wang

CEO & General Manager
STANDARD TECHNOLOGY CORP.

„Intelligent fluids show tremendous cleaning results in 4K/8K FPD manufacturing with a unique physical lift-off effect.“

ADVANTAGES OF INTELLIGENT FLUIDS®

- + waterbased
- + physical function
- + biodegradable
- + dermatologically approved
- + non-inflammable
- + pH-neutral
- + thermodynamically stable



Contact your expert

Andreas Bartzsch

Sales Director Microelectronics/ Electronics

☎ +49 341 319 68 10 22

☎ +49 173 259 67 87

✉ bartzsch@intelligent-fluids.com



intelligent fluids GmbH
Karl-Heine-Straße 99
04229 Leipzig, Germany
if-micro.com
intelligent-fluids.com

Approved by



Empowered by

