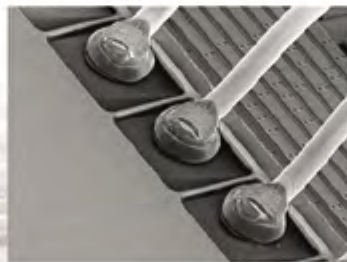


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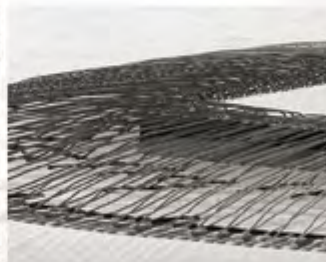


SPT

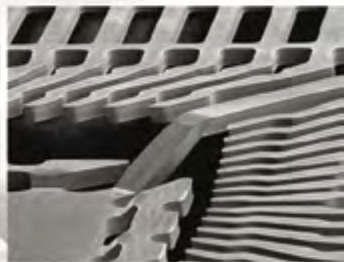
The **Leading Choice** For  
Copper Wire Bonding



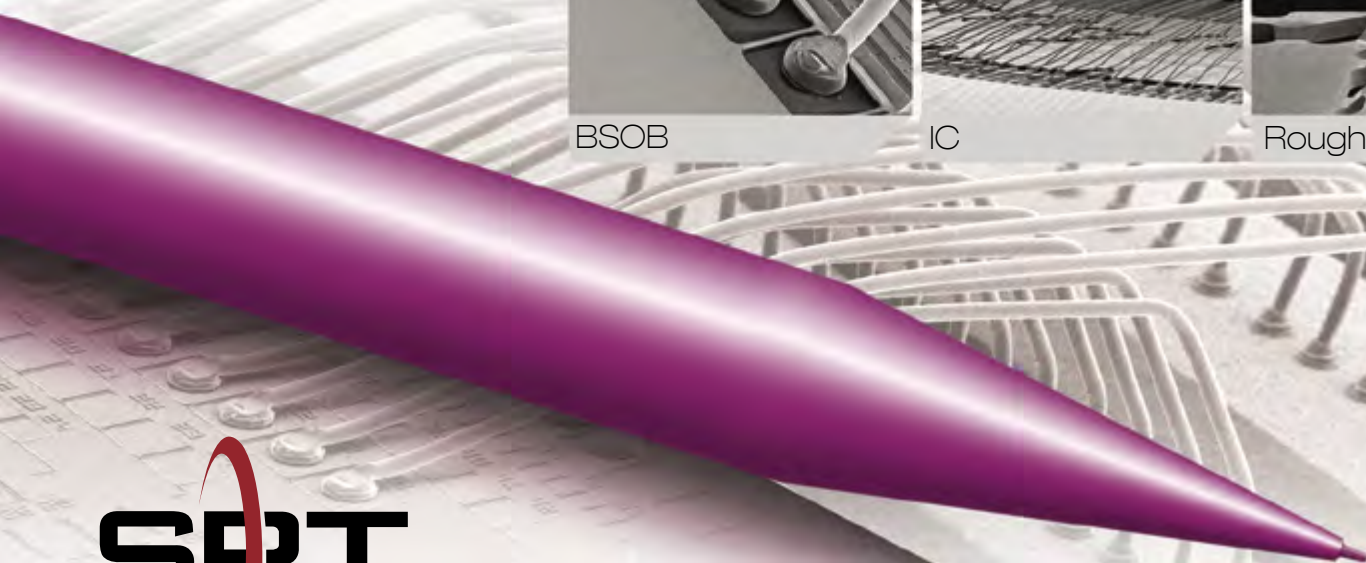
BSOB



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Roughened PPF



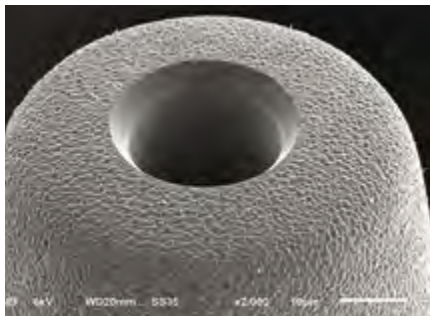
**SPT**  
small precision tools

# A NEW CAPILLARY MATERIAL

The demand for durable capillary and low cost of ownership are the key drivers for innovation. Researchers at SPT Switzerland have developed 'CR', a new ceramic material that is wear resistant in a high mechanical stress copper wire bonding process. 'CR' material represents the latest in SPT's technology and innovation to cater for a wide-range of wire bonding applications while providing the benefits of longer tool life. 'CR' is a fine grain, high density ceramic composite with a proprietary engineered surface finishing for enhanced coupling performance.

Properties	Units	CR
Density	g/cm <sup>3</sup>	4.0
Hardness	HV1	2150
Bending Strength	MPa	750
Average Grain Size	µm	1.2

## 'X' FINISH - A Perfect Compliment with Material



- Enhanced coupling between wire and capillary tip surface
- Excellent long term bonding stability
- Increased durability - higher mechanical resistance

## How To Order

SU - 30 080 - 38 5 F - C R X 3 4 T P

Please contact our SPT local sales representative for technical advice and recommendations.