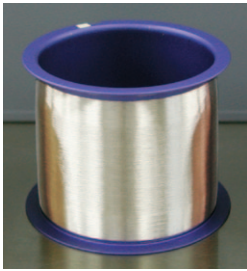


EX

Pd コーティング Cu ワイヤ

Pd coated Cu Wire



EX1

高価な金ボンディングワイヤに替わり、大幅なコストダウンが可能な銅ボンディングワイヤです。EX1は、魅力的な価格と安定した生産性を両立する次世代のボンディングワイヤです。現在の市場ニーズに大変よくマッチしています。

Copper is much cheaper than Gold, so Cu wires can realize huge cost saving for a semiconductor packaging company.

EX1 is the new generation bonding wire which has an attractive price and stable productivity, and it's well-matched to the present market.

	Productivity	Reliability	Adoptive PKGs	Initial Investment	Price	Total Value
EX1p	◎	○	◎	○	○	◎
EX1	○	○	○	○	○	○
Conventional Cu wire	△	△	△	△	◎	△
Au wire	◎	◎	◎	◎	×	△

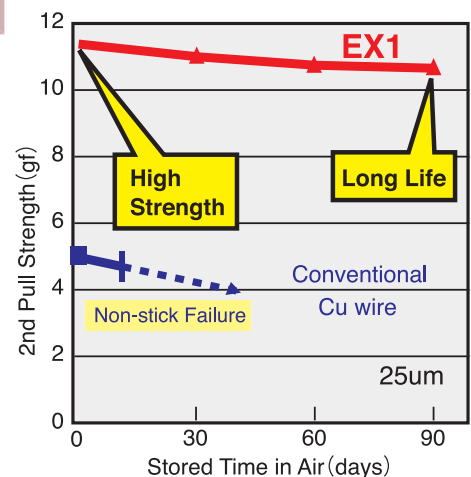
◎ Excellent ○ Good △ Fair × Not Good

1) Characteristics of EX1p

	Features	Detail
1	Improving 2nd bonderability	<ul style="list-style-type: none"> higher 2nd pull strength reducing 2nd peeling improving Pd-PPF bonding
2	Broader parameter window	<ul style="list-style-type: none"> reducing scrub & USG enhancing UPH longer capillary life

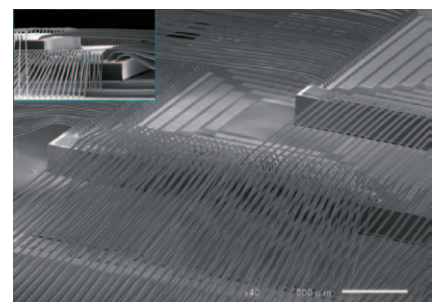
2) Characteristics of EX1

	EX1	Conventional Cu
2nd Pull Strength	1.5~2times	1
Floor Life (in CR)	>60days	<7days
Spooled Length	~5,000m	500~1,000m
Shield Gas	N ₂	N ₂ +5%H ₂
Sealing Bag (for store)	No Need	Must



3) History of EX

2005	Start the Development
2006	
2007	Debut of EX1 (Dec.)
2008	
2009	Start Commercial Production
2011	Debut of EX1p



EX1 use for Fine IC Package (EX1-Φ18μm)