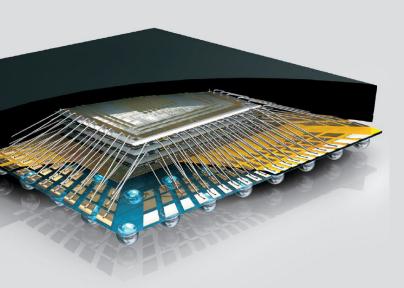
Heraeus

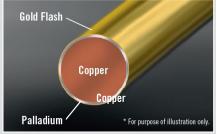


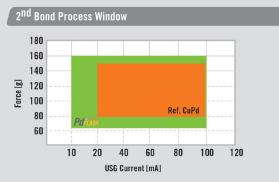
Au Flash Pd Coated Copper Wire for IC Applications



PdFlash Benefits & Features

- Robust 2nd bond performance
- Higher stitch pull
- Wider 2nd bond process window than CuPd wire
- Available in diameter ranging from 0.6 2.0 mil





Wire Diameter: 0.7 mil, Device Type: PBGA, Capillary part #: K&S C8-FG-1034-P37 (H:8.5, CD:10.5, T:23, OR:1, FA:11), Bonder Type: ProCu, Bonding Temperature: $160\,^{\circ}$ C

Stit	tch Pull			
	6.0			
	5.5			
<u> </u>	5.0			
h Pull	5.0 - 4.5 - 4.0 -			
Stite	4.0			
	3.5 -			
	3.0	Pdrusii	Ref. CuPd	
		I LIFENSII	Noi. our u	

Wire Diameter: 0.7 mil, Device Type: PBGA, Capillary part #: K&S C8-FG-1034-P37 (H:8.5, CD:10.5, T:23, OR:1, FA:11), Bonder Type: ProCu, Bonding Temperature: $160\,^{\circ}$ C

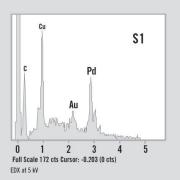
Recommended Technical Data of PdFlash									
Diameter	Microns (µm)	15	18	20	23	25	28	30	33
	Mils	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3
Elongation	(%)	7 – 11	9 – 14	12 – 16	13 – 18	15 – 19	18 – 22	18 – 22	18 – 22
Breaking Load	(g)	2 – 6	4 – 8	7 – 11	9 – 13	12 – 16	15 – 19	17 – 22	20 – 25

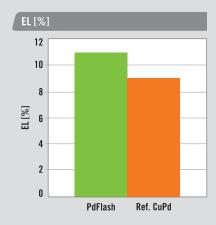
For other diameters, please contact Heraeus Bonding Wire sales representative.

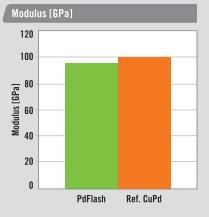


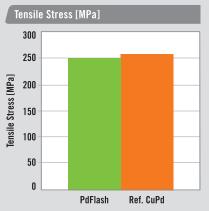
Characteristics for U.7 mil diameter				
Physical Properties				
Density*	9.03 g/cm ³			
Melting Point*	1081 °C			
Thermal Conductivity*	401 W/m·K			
Specific Heat Capacity @ 25 °C*	352 J/kg·K			
Coeff. of Thermal Expansion*	$16.6~(\mu \text{m/m}~^{\circ}\text{C},20-100~^{\circ}\text{C})$			
Electrical Resistivity	1.8 μ Ω -cm			
FAB Hardness	92 - 105 HV (0.01 N/5 s)			
Wire Hardness	95 – 105 HV (0.01 N/5 s)			
Elastic Modulus	$90-100~{ m GPa}$			
Chemical Composition				
Pd + Au	1.5 % – 2.5 %			
Cu Purity	99.98 % min			
Other Guidelines				
Floor Life	60 days			
Shelf Life Time	6 months			
Shielding Gas	N ₂ / Forming Gas			
* Based on Core Material				

SEM-EDX Analysis S1









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The descriptions and engineering data shown here have been compiled by Heraeus using commonly-accepted procedures, in conjunction with modern testing equipment, and have been compiled as according to the latest factual knowledge in our possession. The information was up-to date on the date this document was printed (latest versions can always be supplied upon request). Although the data is considered accurate, we cannot guarantee accuracy, the results obtained from its use, or any patent infringement resulting from its use (unless this is contractually and explicitly agreed in writing, in advance). The data is supplied on the condition that the user shall conduct tests to determine materials suitability for particular application. The Heraeus logo, Heraeus, Condura®, DTS®, Die Top System® and the Condura, DTS, Die Top System figurative mark are trademarks or registered trademarks of Heraeus Holding GmbH or its affiliates. All rights reserved.