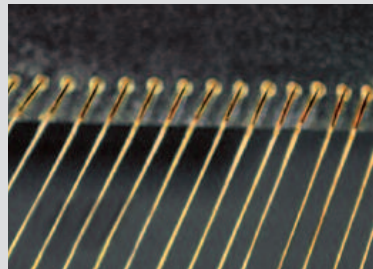
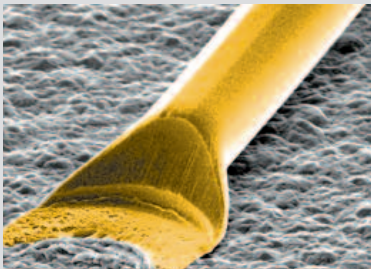


Au HD2 4N Gold Bonding Wire for Universal Use



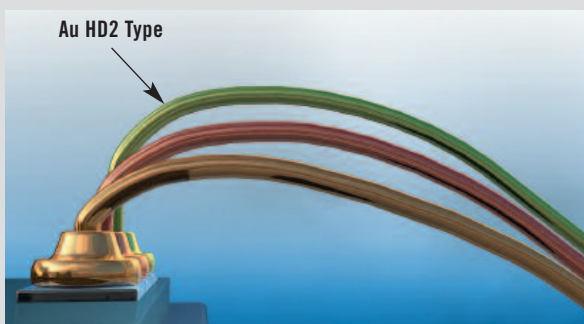
Au HD2 Benefits

- Universal wire
- Soft type bonding wire of high ductility
- Exact loop guiding
- High loop stability
- Good thermal stability
- Suitable for all high performance bonding machines
- For normal and high speed assembling

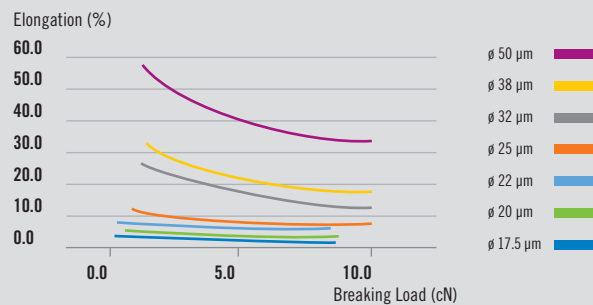
The HD2 type, doped with a few ppm beryllium, is a standard wire for most modern bonding technologies in normal and high speed ranges. Due to its high loop stability, elevated temperature strength and ductility it can be used in most currently utilized components.

Areas of application

- Discrete components (SOT, TO, ...)
- Integrated circuits (P-DIP, PLCC, SOIC, QFP, ...)
- COB (Chip-on-board)



Breaking Load vs. Elongation



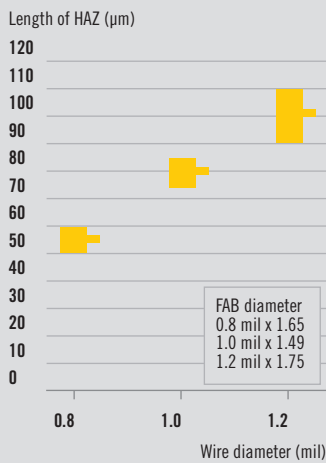
Recommended Technical Data of Au HD2

Diameter	Microns (μm)	17.5	20	23	25	30	32	38	50
	Mils	0.7	0.8	0.9	1.0	1.2	1.25	1.5	2.0
Elongation	%	2 – 5	2 – 5	2 – 8	2 – 8	2 – 8	2 – 8	3 – 8	3 – 10
Breaking Load	cN	> 2,5	> 3	> 5	> 7	> 10	> 11	> 16	> 30

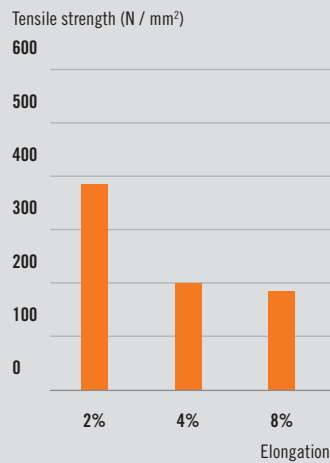
Characteristics of Au HD2

Non-Gold Elements	< 50 ppm	Melting Point	1063°C
Breaking Load @ Room Temperature at 4% EL	> 7 g	Density	19.32 g / cm ³
Breaking Load @ 250°C / 20 sec	> 5 g	Heat Conductivity	3.12 W / cmK
Elastic Modulus	> 60 GPa	Electrical Resistivity	2.3 μOhm-cm
Heat Affected Zone (HAZ) on 50 μm ball diameter	80 μm	Coeff. of Linear Expansion (0 – 100°C)	14.2 ppm / K
Neck Strength at 37 μm ball diameter	6 g	Fusing Current for 25 μm, dia 10 mm length (in air)	0.5 A

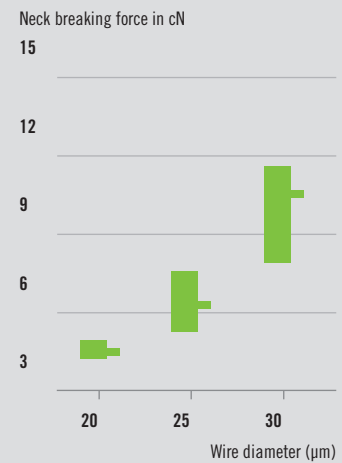
Heat Affected Zone (HAZ)



Breaking Load vs. Elongation



Neck Strength



Gold Wire Segmentation by Properties



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