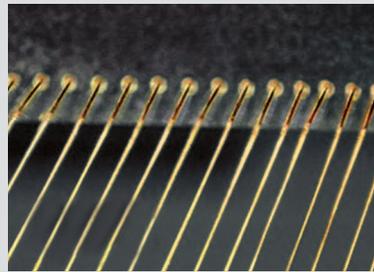
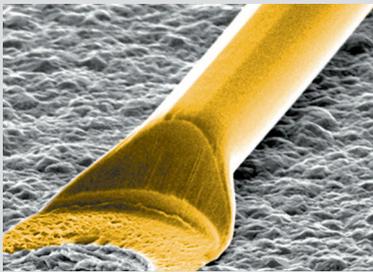


Au HD2 4N Gold Bonding Wire for Universal Use



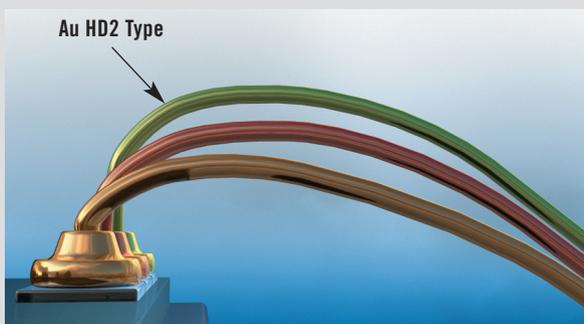
Au HD2 Benefits

- 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

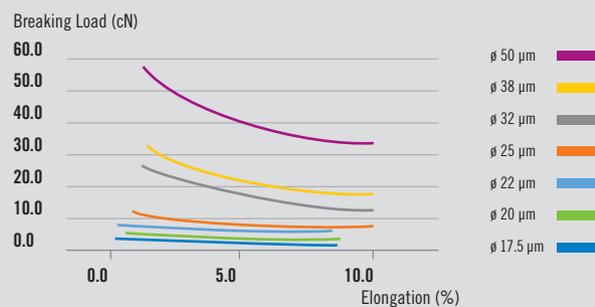
The HD2 type, doped with a few ppm beryllium, is a standard wire for most modern bonding technologies in normal and high speed ranges. Due to its high loop stability, elevated temperature strength and ductility it can be used in most currently utilized components.

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	33	38	50
	Mils	0.7	0.8	0.9	1.0	1.2	1.3	1.5	2.0
Elongation	%	2 – 5	2 – 6	2 – 8	2 – 8	3 – 8	3 – 8	3 – 8	3 – 8
Breaking Load	cN	> 4	> 5	> 6	> 8	> 10	> 11	> 15	> 30

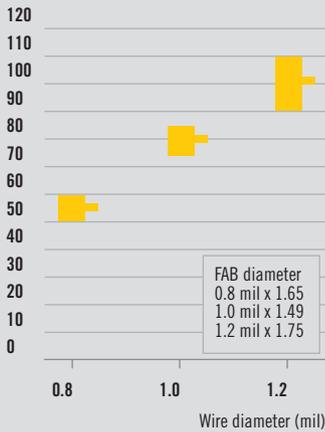
For other diameters, please contact Heraeus Bonding Wires sales representative.

HD2 Characteristics for 25 µm diameter

Non-Gold Elements	< 100 ppm	Heat Conductivity	3.12 W / cm·K
Elastic Modulus	> 60 GPa	Electrical Resistivity	2.3 µΩ·cm
Heat Affected Zone (HAZ)	190 – 230 µm	Coeff. of Linear Expansion (20 – 100 °C)	14.2 ppm / K
Melting Point	1063 °C	Fusing Current for 25 µm, dia 10 mm length (in air)	0.369 A
Density	19.32 g / cm ³		

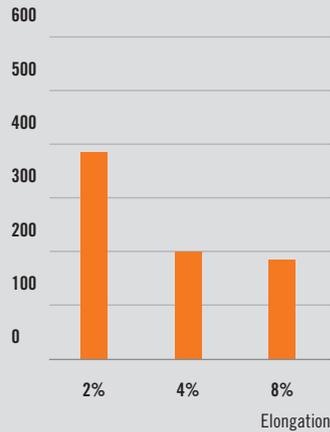
Heat Affected Zone (HAZ)

Length of HAZ (µm)



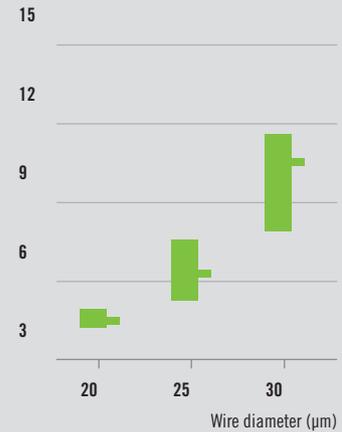
Breaking Load vs. Elongation

Tensile strength (N / mm²)

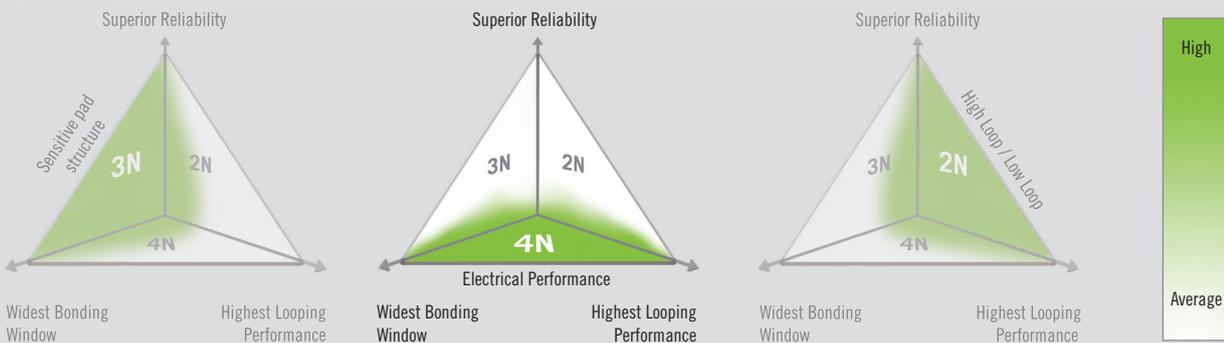


Neck Strength

Neck breaking force in cN



Gold Wire Segmentation by Properties



Heraeus Electronics

Heraeus Deutschland GmbH & Co. KG
Heraeusstraße 12-14
63450 Hanau, Germany
www.heraeus-electronics.com

Americas

Phone +1 610 825 6050
electronics.americas@heraeus.com

China

Phone +86 21 3357 5457
electronics.china@heraeus.com

Asia Pacific

Phone +65 6571 7677
electronics.apac@heraeus.com

Europe, Middle East and Africa

Phone +49 6181 35 3069
+49 6181 35 3627
electronics.emea@heraeus.com