

Cantilever Data	Value	Range*
<b>Resonance Frequency</b>	<b>6 kHz</b>	3 - 14 kHz
<b>Force Constant</b>	<b>0.03 N/m</b>	0.004 - 0.54 N/m
<b>Length</b>	<b>500 µm</b>	495 - 505 µm
<b>Mean Width</b>	<b>100 µm</b>	95 - 105 µm
<b>Thickness</b>	<b>1 µm</b>	0.5 - 2.5 µm

NanoWorld® Arrow™ TL2Au probes are tipless AFM cantilevers for special applications. They can for example be used for attaching spheres and other objects to the free end of the AFM cantilever, or for functionalizing and sensing applications.

All SPM and AFM probes of the Arrow™ series are made from monolithic silicon which is highly doped to dissipate static charge and are chemically inert. The TL2Au probes feature eight rectangular AFM cantilevers having a triangular free end. The AFM cantilevers have a pitch of 250 µm.

The Arrow™ TL2Au probes feature a sample facing side gold coating. They are optionally available without a coating (Arrow™ TL2).

Tip shape: Tipless

Coating: Gold on Sample Facing Side

#### Gold Coating

The gold coating consists of a thin gold layer deposited on the sample facing side of the AFM cantilevers. As the coating is almost stress-free the bending of the AFM cantilevers due to stress is less than 2 degrees.

Order Code	Quantity	Data Sheet
<b>ARROW-TL2Au-50</b>	<b>50</b>	Nominal values