Cantilever Data*	Cant. 1	Cant. 2
Shape	Triangle	
Resonance Frequency	67 kHz	17 kHz
Force Constant	0.32 N/m	0.08 N/m
Length	100 µm	200 µm
Mean Width	13.5 µm	28 µm
Thickness	500 nm	500 nm

Product Description

Leading edge in sharpness and durability

NanoWorld® Pyrex-Nitride AFM probes are designed for various imaging applications in contact or dynamic mode. Tipless AFM cantilevers are often used for applications that require functionalization of the AFM cantilever surface or attaching objects (like spheres or particles) to the end of the AFM cantilever. These and various other applications are especially interesting for the fields of life science and biology.

The Pyrex-Nitride AFM probes have silicon nitride AFM cantilevers with very low force constants. The AFM probe series features a support chip that is made of Pyrex. The TR series features two different triangular AFM cantilevers.

All chips are pre-separated prior to shipment and come in Gel-Pak containers.

Tip shape: Tipless Coating: Reflective Gold

Gold Reflex Coating

The gold reflex coating consists of a 70 nm thick gold layer deposited on the detector side of the AFM cantilevers which enhances the reflectance of the laser beam. Furthermore it prevents light from interfering within the AFM cantilever.

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
PNP-TR-TL-20	20	yes
PNP-TR-TL-50	50	yes