

Most Common Nitinol Alloys

© Memry Corporation 2017

Alloy system	As (fully annealed)	Typical As tolerance	Additional Element (other than Ni and Ti)*	Notes
Binary NiTi	-50C	± 15C	No	Superelastic
Binary NiTi	-25C	± 10C	No	
Binary NiTi	-15C	± 10C	No	
Binary NiTi	-5C	± 10C	No	
Binary NiTi	0C	± 10C	No	
Binary NiTi	+5C	± 10C	No	Shape Memory
Binary NiTi	+20C	± 10C	No	
Binary NiTi	+30C	± 10C	No	
Binary NiTi	+55C	± 10C	No	
Binary NiTi	+70C	± 7C	No	
Binary NiTi	+95C	± 5C	No	
NiTiCo	-80C	± 15C	Co 1.0 - 2.0 wt%	High Stiffness
NiTiCr	-45C	± 15C	Cr 0.2 - 0.3 wt%	
NiTiCr	-30C	± 15C	Cr 0.2 - 0.3 wt%	
NiTiCr	-20C	± 15C	Cr 0.2 - 0.3 wt%	
NiTiCr	-10C	± 15C	Cr 0.2 - 0.3 wt%	
NiTiCu	+75C	± 7C	Cu 5.5 - 6.5 wt%	Narrow Hysteresis
NiTiNb	n/a	n/a	Nb 13.0 - 15.0 wt%	Wide Hysteresis

Largest volume alloys are highlighted

* Only Binary Nitinol Materials are compliant with ASTM F2063 which prohibits intentional additions of elements beyond Ni and Ti

