

# Precision Tweezers Selection Guide





# ARTIS

Reimagining the Tweezer

Aven's cutting edge design features a angled bend at the end of the tip, providing a softer overall grip with a large surface area that **reduces hand fatigue**, enhancing productivity. The durable tweezers are protected by an attractive ESD safe coating, and the **highly polished stainless steel** tips with rounded edges allow operators to handle very fine wire, miniature parts, electrical components, and other delicate materials



- Exclusive Patent-Pending Design **reduces hand fatigue**
- Highly polished stainless steel tips with rounded edges
- Protective ESD Safe coating
- Anti-magnetic & anti-acid

# Accu-Tek

Premium Titanium Tweezers

**Swiss-Made premium titanium tweezers.** These titanium tweezers have been found to be excellent for use in the silicon chip industry because titanium tweezers do not shed particles like the stainless steel tweezers. Anytime an abrasive substance is handled and microscopic particles are a detriment, it may be best to choose titanium. Since titanium is non-magnetic, these tweezers are extremely useful when handling magnetic materials or when working in a magnetic field. Titanium is a light weight, high strength material.



- Lightweight (high strength to weight ratio)
- Zero Magnetic Retentively
- Temperature Resistant to 800°C/1600°F
- Chemical and Corrosion Resistant
- Solder non-adherent

# Titanium Technik

High Precision Tweezers

Titanium tweezers have been found to be excellent for use in the silicon chip industry, as titanium tweezers do not shed particles like the stainless steel tweezers. Anytime an abrasive substance is handled and microscopic particles are a detriment, it may be best to choose titanium. Since titanium is non-magnetic, these tweezers are extremely useful when handling magnetic materials or when working in a magnetic field. **Titanium is both light weight and high strength material.**



- Lightweight (high strength to weight ratio)
- Zero Magnetic Retentively
- Temperature Resistant to 800°C/1600°F
- Chemical and Corrosion Resistant
- Solder non-adherent

# Technik

High Precision Tweezers

Finely crafted tweezers. Anti-glare finish to reduce eye strain. **Hand finished points for accuracy.** Recommended for micro electronics and precision assembly. Available in stainless steel and carbon steel.



- Stainless steel models - anti-magnetic & anti-acid
- Carbon steel models also available

# E-Z Pik

Industrial Tweezers

E-Z Pik tweezers feature a highly durable special coating for high visibility and easy identification. Operators can quickly identify the tweezers they need for their particular operation and engineers can easily specify tweezers to be used for a particular process by identifying the color, rather than the pattern of tweezers.



- Color coated for easy identification
- Straight Strong Precise tips
- Anti-magnetic
- Anti-acid
- 304 Stainless steel

# Tweezer Material

**Titanium:** Titanium tweezers are excellent for use in the silicon chip industry, as they do not shed particles like the stainless steel. When it is determined that microscopic particles are a detriment when handling abrasive parts we recommend using titanium tweezers. In addition since titanium tweezers are 100% non magnetic, they are extremely useful when working with magnetic materials or when working in a magnetic field. Titanium is lightweight and a high strength material.

**Carbofib:** Fully ESD Safe (102 ohm) but at the same time, soft and non scratching. These conductive synthetic fiber tips are ideally suited to handle delicate and fragile components when extreme care and ESD safety are an absolute necessity. All tweezers are manually finished and tested for maximum precision. Chemical resistant and heat resistant up to 256°C.

**Stainless Steel:** Perfectly Balanced for a superior feel. Light weight with soft tension with accurately finished points. Recommended for work under high power magnification aerospace and micro electronics and in applications where high precision is required. Stainless steel does show some magnetism.



## Material Guide

| Material                                  | Tip Hardness | Magnetism           | Corrosion Resistance     |
|-------------------------------------------|--------------|---------------------|--------------------------|
| Titanium                                  | Excellent    | Never               | Excellent                |
| Carbon steel                              | Excellent    | Yes                 | Low                      |
| Stainless Steel                           | Very Good    | Some                | Good                     |
| Stainless Steel, Anti-magnetic, Anti-acid | Good         | None to very little | Excellent, Resists Acids |
| Carbon Composite                          | Soft         | None                | Non-corrosive            |

## Tip Styles

| Image | Pattern | Description                                                                       |
|-------|---------|-----------------------------------------------------------------------------------|
|       | AA      | For general assembly, very strong and precise tips with fine finish               |
|       | AC      | Sturdy tips for bending and handling very fine wire. Includes finger grips.       |
|       | MM      | General Purpose Tweezer                                                           |
|       | 00      | Flat edges, heavy duty strong blades tapering to a regular strong point           |
|       | 00C     | Flat edges, strong blades tapering to a regular strong point.                     |
|       | 00D     | Flat edges, strong blades tapering to a regular strong point. Finger grips.       |
|       | 0       | Fine Straight Points for handling and positioning of miniature parts or fine wire |
|       | 0A      | Straight Points with radius edges. Designed for dense areas                       |
|       | 0C      | Flat Edges, fine tips and short                                                   |
|       | SS      | Extra long and narrow with extended reach to access confined areas.               |
|       | 1       | General Use, Strong Blade with Fine Point                                         |
|       | 2       | Tapered sharp point for bending and handling of small wire and parts              |
|       | 2A      | Straight Flat Tips. Provides large flat gripping surface.                         |
|       | 2AB     | Curved Flat Tips. Best Flat tips. Tips provide large flat gripping surface.       |
|       | 3       | Fine point tweezers for general assembly or light magnification applications.     |

| Image | Pattern | Description                                                                 |
|-------|---------|-----------------------------------------------------------------------------|
|       | 3CB     | Fine point with bent tips                                                   |
|       | 3F      | Fine point. Tips touch over 3mm for holding tiny wires                      |
|       | 35A     | Wafer handling tweezers                                                     |
|       | 36      | Angled broad tip with large paddle style tips                               |
|       | 4       | Blades taper sharply from body to a fine rounded point. For extra fine work |
|       | 5       | Blades taper sharply from body to a super fine point. For extra fine work   |
|       | 5A      | Oblique fine points for greater visibility                                  |
|       | 5B      | Super micro high precision bent tips provide maximum visibility.            |
|       | 6       | Angled Fine Tips for access to tight areas                                  |
|       | 65A     | Long fine curved tips                                                       |
|       | 66      | Long double bent tips                                                       |
|       | 7       | Curved super fine points for assembly work                                  |
|       | 7B      | Serrated curved super fine points                                           |
|       | 15AWG   | Cutting tweezers. Used for fine wire or hairsprings                         |
|       | 3C      | Fine point tweezers. Slightly shorter than #3                               |



## Aven Brand Tweezers

| Tip Pattern | Accutek          | Accutek Mini | Technik Stainless Steel | Technik Carbon Steel | Accu-Tek Titanium | Technik Titanium | E-Z Pik | Comfort Grip | Artis    | Carbofib |
|-------------|------------------|--------------|-------------------------|----------------------|-------------------|------------------|---------|--------------|----------|----------|
| AA          | 18013-BR (Brass) |              | 18013USA                | 18011-CS             | 18013TS           | 18013TT          | 18013EZ |              | 18013ARS |          |
| AC          | 1                |              | 18016USA                | 18014-CS             |                   |                  |         |              |          |          |
| MM          |                  |              | 18023USA                | 18021-CS             |                   |                  |         |              | 18023ARS |          |
| 00          | 18032ACU         |              | 18032USA                | 18032-CS             | 18032TS           | 18032TT          | 18032EZ | 18032-ER     | 18032ARS |          |
| 00C         |                  |              | 18034USA                |                      |                   |                  |         |              |          |          |
| 00D         | 18037ACU         | 18037-MS     | 18037USA                | 18036-CS             |                   | 18037TT          |         |              |          |          |
| 0           | 18026ACU         |              | 18026USA                |                      |                   |                  |         |              |          |          |
| 0A          |                  |              | 18027USA                |                      |                   |                  |         |              |          |          |
| 0C          | 18029ACU         |              | 18029USA                |                      |                   |                  |         |              |          |          |
| SS          | 18040ACU         |              | 18040USA                |                      |                   |                  |         |              | 18040ARS |          |
| 1           | 18043ACU         |              | 18043USA                | 18043-CS             |                   | 18043TT          |         |              | 18043ARS |          |
| 2           | 18046ACU         | 18046-MS     | 18046USA                | 18046-CS             | 18046TS           | 18046TT          |         |              |          | 18767    |
| 2A          | 18049ACU         | 18049-MS     | 18049USA                | 18049-CS             | 18049TS           | 18049TT          | 18049EZ | 18049-ER     | 18049ARS | 18768    |
| 2AB         |                  |              | 18050USA                |                      |                   |                  |         |              |          |          |
| 3           | 18053ACU         | 18053-MS     | 18053USA                | 18053-CS             | 18053TS           | 18053TT          |         |              |          | 18660    |
| 302         |                  |              |                         |                      |                   |                  |         |              |          | 18702    |





# Tweezers Cross Reference Guide

## Premium Tweezers

| Tweezer Description | Excelta | EREM  | Aven Accu-Tek Stainless Steel Model # | Aven Artis Model # | Aven E-Z Pik Model # | Aven Titanium Accu-Tek |
|---------------------|---------|-------|---------------------------------------|--------------------|----------------------|------------------------|
| Pattern OO          | OO-SA   | OOSA  | 18032ACU                              | 18032ARS           | 18032EZ              | 18032TS                |
| Pattern OOD         | OOD-SA  | OODSA | 18037ACU                              | N/A                | N/A                  | N/A                    |
| Pattern O           | O-SA    | M5S   | 18026ACU                              | N/A                | N/A                  | N/A                    |
| Pattern OC          | OC-SA   | N/A   | 18029ACU                              | N/A                | N/A                  | N/A                    |
| Pattern SS          | SS-SA   | SSSA  | 18040ACU                              | 18040ARS           | N/A                  | N/A                    |
| Pattern 1           | 1-SA    | 1SA   | 18043ACU                              | 18043ARS           | N/A                  | N/A                    |
| Pattern 3           | 3-SA    | 3SA   | 18053ACU                              | N/A                | N/A                  | 18053TS                |
| Pattern 3C          | 3C-SA   | 3CSA  | 18056ACU                              | 18056ARS           | 18056EZ              | 18056TS                |
| Pattern 2           | 2-SA    | 2SA   | 18046ACU                              | N/A                | N/A                  | 18046TS                |
| Pattern 4           | 4-SA    | 4SA   | 18059ACU                              | N/A                | N/A                  | N/A                    |
| Pattern 5           | 5-SA    | 5SA   | 18062ACU                              | 18062ARS           | 18062EZ              | 18062TS                |
| Pattern 2A          | 2A-SA   | 2ASA  | 18049ACU                              | 18049ARS           | 18049EZ              | 18049TS                |
| Pattern 5A          | 5A-SA   | 5ASA  | 18065ACU                              | N/A                | N/A                  | N/A                    |
| Pattern 6           | 6-SA    | N/A   | 18069ACU                              | N/A                | N/A                  | 18069TS                |
| Pattern AA          | N/A     | N/A   | N/A                                   | 18013ARS           | 18013EZ              | 18013-TS               |
| Pattern MM          | N/A     | N/A   | N/A                                   | 18023ARS           | N/A                  | N/A                    |
| Pattern 7           | 7-SA    | 7SA   | 18072ACU                              | 18072ARS           | 18072EZ              | 18072TS                |

## Professional-Grade Tweezers

| Tweezer Description | Excelta             | EREM   | Aven Technik Stainless Steel Model # | Aven Technik Carbon Steel Model # | Aven Technik Titanium Model # | Aven E-Z Pik Model # | Aven Artis Model # |
|---------------------|---------------------|--------|--------------------------------------|-----------------------------------|-------------------------------|----------------------|--------------------|
| Pattern OO          | OO-SA-SE/OO-SA-PI   | OOSASL | 18032USA                             | 18032CS                           | 18032TT                       | 18032EZ              | 18032ARS           |
| Pattern OOD         | OOD-SA-SE/OOD-SA-PI | N/A    | 18037USA                             | 18036CS                           | 18037TT                       | N/A                  | N/A                |
| Pattern O           | N/A                 | N/A    | 18026USA                             | N/A                               | N/A                           | N/A                  | N/A                |
| Pattern OC          | OC-SA-SE/OC-SA-PI   | N/A    | 18029USA                             | N/A                               | N/A                           | N/A                  | N/A                |
| Pattern SS          | SS-SA-SE/SS-SA-PI   | N/A    | 18040USA                             | N/A                               | N/A                           | N/A                  | 18040ARS           |
| Pattern 1           | 1SA-SE/1SA-PI       | 1SASL  | 18043USA                             | 18043CS                           | 18043TT                       | N/A                  | 18043ARS           |
| Pattern 3           | 3SA-SE/3SA-PI       | 3SASL  | 18053USA                             | 18053CS                           | 18053TT                       | N/A                  | N/A                |
| Pattern 3C          | 3C-SA-SE/3C-SA-PI   | 3CSASL | 18056USA                             | 18054CS                           | 18056TT                       | 18056EZ              | 18056ARS           |
| Pattern 2           | 2-SA-SE/2-SA-PI     | 2SASL  | 18046USA                             | 18046CS                           | 18046TT                       | N/A                  | N/A                |
| Pattern 4           | 4-SA-SE             | 4SASL  | 18059USA                             | 18057CS                           | 18059TT                       | N/A                  | N/A                |
| Pattern 5           | 5-SA-SE/5-SA-PI     | 5SASL  | 18062USA                             | 18060CS                           | 18062TT                       | 18062EZ              | 18062ARS           |
| Pattern 2A          | 2A-SA-SE/2A-SA-PI   | 2ASASL | 18049USA                             | 18049CS                           | 18049TT                       | 18049EZ              | 18049ARS           |
| Pattern 5A          | 5A-SA-SE/5A-SA-PI   | 5ASASL | 18065USA                             | 18065CS                           | 18065TT                       | N/A                  | N/A                |
| Pattern 6           | 6-SA-SE/6-SA-PI     | n/a    | 18069USA                             | 18067CS                           | 18069TT                       | N/A                  | N/A                |
| Pattern 7           | 7-SA-SE/7-SA-PI     | 7SASL  | 18072USA                             | 18072CS                           | 18072TT                       | 18072EZ              | 18072ARS           |
| Pattern MM          | N/A                 | N/A    | 18023USA                             | 18021-CS                          | N/A                           | N/A                  | 18023ARS           |
| Pattern AA          | N/A                 | N/A    | 18013USA                             | 18011-CS                          | 18013TT                       | 18013EZ              | 18013ARS           |