

Wafer Tweezers

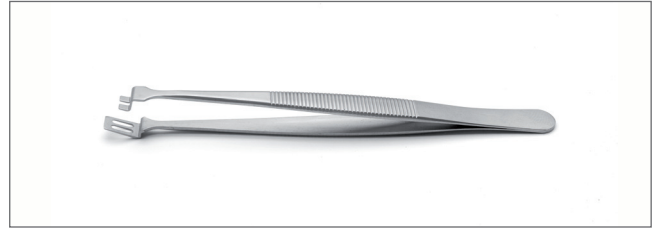
The several tip shapes and sizes are designed to handle thin and delicate substrates like glass, metal and silicon wafers while avoiding scratching or breaking of thin layers. Tip sizes are available from 5 to 65 mm width. Teflon coating (full body), plastic tips as well as special designs are available for specific applications.

Anti-Acid/Anti-Magnetic SS (SA)

Anti-Acid/Anti-Magnetic SS (SA) - TEFLON COATING (T)



2WF.SA
Serrated handles. Tips: handling 2", top fingers, stepped bottom paddle. OAL: 120mm



2WFG.SA
Serrated handles. Tips: handling 2", top fingers, stepped bottom paddle with grid. OAL: 120



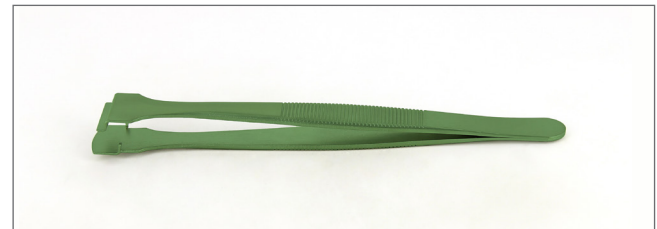
3WF.SA
Serrated handles. Tips: handling 2", top fingers, stepped bottom paddle. OAL: 125mm



3WFG.SA
Serrated handles. Tips: handling 2", top fingers, stepped bottom paddle with grid. OAL: 125mm



45WF.SA
Serrated handles. Tips: handling 5", top fingers, flat bottom paddle. OAL: 130mm



45WF.SA.T
Teflon coated. Serrated handles. Tips: handling 5", top fingers, flat bottom paddle. OAL: 130mm

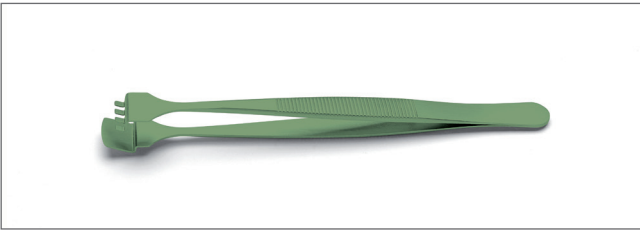


48WF.SA
Serrated handles. Tips: handling 6", top fingers, flat bottom paddle. OAL: 135mm



4WF.SA
Serrated handles. Tips: handling 3", top fingers, stepped bottom paddle. OAL: 125mm

Wafer Tweezers



4WFS.A.T

Teflon coated. Serrated handles. Tips: handling 3", top fingers, stepped bottom paddle. OAL: 125mm



4WFG.SA

Serrated handles. Tips: handling 3", top fingers, stepped bottom paddle with grid. OAL 125 mm

技术咨询与报价
电话: 18823303057 QQ:2104028976



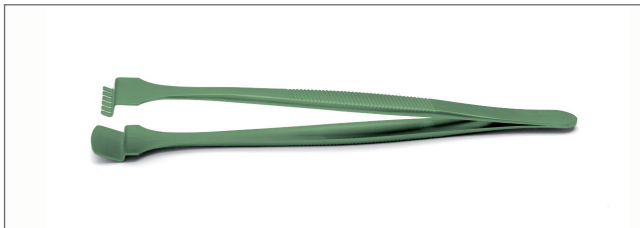
5WFS.A

Serrated handles - tips: handling 5", top fingers, stepped bottom paddle. OAL: 130 mm



6WFS.A

Serrated handles. Tips: handling 6", top fingers, stepped bottom paddle. OAL: 130mm



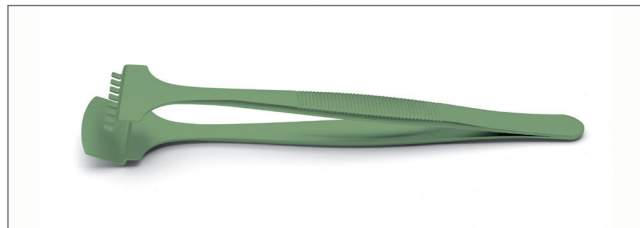
6WFS.A.T

Teflon coated. Serrated handles. Tips: handling 6", top fingers, stepped bottom paddle. OAL: 130mm



8WFS.A

Serrated handles. Tips: handling 6", top fingers, stepped bottom paddle. OAL: 135mm



8WFS.A.T

Teflon coated. Serrated handles. Tips: handling 6", top fingers, stepped bottom paddle. OAL: 135mm



8WNY.SA.1

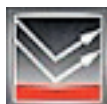
Serrated handles. Tips: handling 8", top lip, stepped bottom paddle. Nylon tips. OAL: 150mm

TECHNICAL DATA SHEET

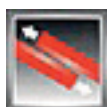
Industrial coating type T

General notes:

- » This **solvent-based liquid Teflon® coating** is formulated with special blends of fluoropolymers and other high-performance resins to improve toughness and abrasion resistance


Nonstick

Very few solid substances will permanently adhere to a Teflon® finish. Although tacky materials may show some adhesion, almost all substances release easily


Low coefficient of friction

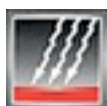
The coefficient of friction of this Teflon® coating is generally in the range of 0.20 to 0.25, depending on the load, sliding speed, and particular Teflon® coating used


Nonwetting

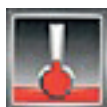
Since surfaces coated with Teflon® are both oleophobic and hydrophobic, they are not readily wetted. Cleanup is easier and more thorough — in many cases, surfaces are self-cleaning


Heat resistance

Can operate continuously at temperatures up to 150°C and can be used for intermittent service up to 200°C


Unique electrical properties

Over a wide range of frequencies, Teflon® has high dielectric strength, low dissipation factor, and very high surface resistivity


Cryogenic stability

Many Teflon® industrial coatings withstand severe temperature extremes without loss of physical properties. Teflon® industrial coatings may be used at temperatures as low as -270°C/-454°F


Chemical resistance

Teflon® is normally unaffected by mild chemical environments. It has good resistance to diluted acids, diluted and concentrated alkalis and organic solvents

This document contains information based on average values as obtained from the results of laboratory tests and observations made on the material. Ideal-Tek SA declines all responsibility from an improper use of the product described in this document.

TECHNICAL DATA SHEET

Stainless steel type SA

General notes:

- » **Low carbon austenitic steel** (Material number 1.4435, DIN X2CrNiMo18-14-3, AISI number 316L)
- » contains from 16.5 to 18.5 wt% chromium and has important quantities of nickel and molybdenum as additional alloying elements
- » non-magnetizable (80%)
- » good corrosion resistance to most chemicals, salts and acids
- » generally used where corrosion resistance and toughness are primary requirements
- » typical applications include tweezers for the electronic industry, watch-makers, jewelers and laboratory and medical applications in moderately aggressive chemical environments

Composition

Component	Wt. %	Component	Wt. %	Component	Wt. %
C	≤0.03	Si	≤1.0	Mn	≤2.0
P	≤0.045	S	≤0.03	Cr	17.0-19.0
Mo	2.5-3.0	Ni	12.5-15.0		

Mechanical properties

State	annealed
Density	8.0 g/cm³
Hardness, Vickers	230 HV
Tensile strength, ultimate	500-700 MPa
Tensile strength, yield	290
0.2% Yield stress	≥ 200 MPa
Elongation, break	40%
Modulus of elasticity	200 GPa

Thermal properties

Coef. of lin. therm expansion	16.0 E-6/°C	20°C-100°C
Coef. of lin. therm expansion	17.0 E-6/°C	20°C-300°C
Specific heat capacity	0.50 J/(g·K)	
Thermal conductivity	15 W/(m·K)	
Continuous use temperature	350°C	
Max service temperature, air	925°C	

Electrical properties

Resistivity	0.75 E-4 Ohm.cm
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