

PRODUCT SPECIFICATION

| | |
|-------------------------|-------------------------------|
| Brand | C.K |
| Product Range | Precision & Carbofib tweezers |
| Catalogue number | As listed |
| Date | 20/11/2008 |

Range Description

A range of professional quality tweezers

Features

Precision Tweezers

- Precision tweezers for the intricate gripping, positioning and holding tasks encountered in assembly and maintenance/repair work, commonly found in electronic and precision manufacturing industries.
- Manufactured using the highest quality materials and production techniques

Carbofib Tweezers

- PA66/CF30 Polyamide 66 reinforced with 30% carbon fibre
- ESD compliant material
- Heat stabilised
- Very high rigidity, excellent tensile and flexural strength, fatigue and creep resistant
- Low friction, self lubricating properties, excellent wear and abrasion properties
- Heat resistant up to 1000°C
- Good chemical resistance (oils, grease, fuels, non-polar solvents) Not resistant to acids, alkalis, and hot water or steam
- Very low coefficient of linear thermal expansion
- Solder (soft and hard) can not adhere to the surface

precision

2301



2302



2307



2308



2308A



2309



2313A



2314



2315



2316



2317



2318



2319



2327



Ceramic Tweezers

- Zirconia toughened Alumina (ZTA)
- A superior combination of high strength (from the zirconia) and high hardness (from the Alumina)
- Relatively low density
- No open porosity
- Very hard surface, good abrasion and wear resistance
- Flexible and resistant to fracture
- Excellent thermal properties and high temperature stability
- Extreme corrosion resistance, nearly chemically inert
- 100% electrically insulating





2390



2391



2392



| Item Number | Item Description | EAN No | Commodity code | Carton Qty |
|-------------|-------------------------------------------------|---------------|----------------|------------|
| T2301 | Precision Universal Tweezer 115mm | 5013969424300 | 82032010 | 1 |
| T2302 | Precision Universal Tweezer Coated 115mm | 5013969424409 | 82032010 | 1 |
| T2307 | Precision Universal Tweezer 145mm | 5013969424904 | 82032010 | 1 |
| T2308 | Precision Universal Tweezer Coated 145mm | 5013969425000 | 82032010 | 1 |
| T2308A | Precision Universal Tweezer PVC Coated 145mm | 5013969883503 | 82032010 | 1 |
| T2309 | Precision Universal Tweezer 140mm | 5013969425109 | 82032010 | 1 |
| T2313A | Precision Universal Tweezer Cross Pattern 160mm | 5013969961201 | 82032010 | 1 |
| T2314 | Precision Universal Tweezer 150mm | 5013969425604 | 82032010 | 1 |
| T2315 | Precision Universal Tweezer Coated 150mm | 5013969425703 | 82032010 | 1 |
| T2316 | Precision Tweezer 105mm | 5013969425802 | 82032010 | 1 |
| T2317 | Precision Tweezer 105mm | 5013969425901 | 82032010 | 1 |
| T2318 | Precision Tweezer 130mm | 5013969426007 | 82032010 | 1 |
| T2319 | Precision Tweezer 120mm | 5013969426106 | 82032010 | 1 |
| T2327 | Precision Radio Tweezer 155mm | 5013969111002 | 82032010 | 1 |
| T2328 | Precision Radio Tweezer Bent 155mm | 5013969984125 | 82032010 | 1 |
| T2330 | Precision Tweezer 110mm | 5013969983302 | 82032010 | 1 |
| T2331 | Precision Tweezer 115mm | 5013969983401 | 82032010 | 1 |
| T2334 | Precision Positioning Tweezer 120mm | 5013969983708 | 82032010 | 1 |
| T2336 | Precision Positioning Tweezer 120mm | 5013969983906 | 82032010 | 1 |
| T2339 | Precision Tweezer 110mm | 5013969183801 | 82032010 | 1 |

| | | | | |
|--------|---------------------------------------|---------------|----------|---|
| T2340 | Precision Tweezer 110mm | 5013969188806 | 82032010 | 1 |
| T2341 | Precision Tweezer 110mm | 5013969212709 | 82032010 | 1 |
| T2343 | Precision Tweezer 130mm | 5013969213102 | 82032010 | 1 |
| T2345A | Precision Ceramic Tweezer 140mm | 5013969815085 | 82032010 | 1 |
| T2349 | Precision Tweezer Cross Pattern 120mm | 5013969229905 | 82032010 | 1 |
| T2351 | Precision Positioning Tweezer 115mm | 5013969243505 | 82032010 | 1 |
| T2354 | Precision Positioning Tweezer 115mm | 5013969244403 | 82032010 | 1 |
| T2359 | Precision Positioning Tweezer 150mm | 5013969282801 | 82032010 | 1 |
| T2360 | Precision Positioning Tweezer 120mm | 5013969282900 | 82032010 | 1 |
| T2364 | Precision Tweezer Flat Tip 105mm | 5013969236101 | 82032010 | 1 |
| T2381 | Precision Tweezer 120mm | 5013969982268 | 82032010 | 1 |
| T2390 | Carbofib Positioning Tweezer 130mm | 5013969982343 | 82032010 | 1 |
| T2391 | Carbofib Positioning Tweezer 130mm | 5013969982350 | 82032010 | 1 |
| T2392 | Carbofib Positioning Tweezer 130mm | 5013969982367 | 82032010 | 1 |

Technical
product
information

Specification

| Fig | Type | Tip Type | Material code | Coating |
|--------|-------------------------------|------------------------------------------------------|---------------|---------|
| T2301 | Universal | Fine, blunt, 2mm wide, finely milled inside | C | Nickel |
| T2302 | Universal | Fine, blunt, 2mm wide, finely milled inside | C | Black |
| T2307 | Universal | Blunt, 3.5mm wide, finely milled inside | C | Nickel |
| T2308 | Universal | Blunt, 3.5mm wide, finely milled inside | C | Black |
| T2308A | Universal | Blunt, 3.5mm wide, finely milled inside | C | PVC |
| T2309 | Universal | Blunt, 2mm wide, fine cross cut inside | C | Nickel |
| T2313A | Cross pattern, reverse action | Fine, bent, 2.5mm wide | C | Nickel |
| T2314 | Universal Pin Guided | Fine, blunt, 2mm wide, finely milled inside | C | Nickel |
| T2315 | Universal Pin Guided | Fine, blunt, 2mm wide, finely milled inside | C | Black |
| T2316 | Precision | Fine, straight | SA | None |
| T2317 | Precision | Fine, bent | SA | None |
| T2318 | Precision | Fine, straight, extra long | SA | None |
| T2319 | Precision | Fine, straight, extra long | S | None |
| T2327 | Radio | Fine, blunt, 2mm wide, finely milled inside | C | Nickel |
| T2328 | Radio | Fine, blunt, bent, 2mm wide, finely milled inside | C | Nickel |
| T2330 | Precision | Superfine, bent | SA | None |
| T2331 | Precision | Superfine, offset, bent | SA | None |
| T2334 | Positioning | For SOT-package, Monolithic chip, capacitors etc | SA | None |
| T2336 | Positioning | Grooved, bent, for cylindrical devices up to 1mm Dia | SA | None |
| T2339 | Precision | Fine, straight | SA | None |
| T2340 | Precision | Fine, sharp, straight | SA | None |
| T2341 | Precision | Superfine, straight | SA | None |
| T2343 | Precision | Fine, straight | SA | None |
| T2345A | Ceramic | Fine, straight | CER | Nickel |
| T2349 | Cross pattern, reverse action | For SOT-package, Monolithic chip, capacitors etc | SA | None |
| T2351 | Positioning | Round inside, for cylindrical devices up to 1mm Dia | SA | None |
| T2354 | Positioning | Round inside, for cylindrical devices up to 2mm Dia | SA | None |
| T2359 | Positioning | Fine, bent, cross cut inside | SA | None |
| T2360 | Positioning | Flat, round, straight | SA | None |
| T2364 | Flat | Spatula flat | SA | None |
| T2381 | Precision | Fine, curved | SA | None |
| T2390 | Positioning | Fine | CER | Nickel |
| T2391 | Positioning | Fine, extra slim | CER | Nickel |
| T2392 | Positioning | Round, 2mm wide | CER | Nickel |

Material type

| | |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | C = Hardened carbon steel SA = 316 stainless steel S = Stainless steel CER = Ceramic (Ceramic tips held on a nickel plated carbon steel bow) |
| Standards compliance | Carbofib tweezers are electrostatically dissipative to DIN EN 61340 5,1 & 5,2 |
| User health and safety information | None applicable |
| RoHS/WEEE compliance | This product range does not fall within the scope of RoHS or WEEE regulations |
| Material safety data | None applicable |
| Warranty | C.K Tools are guaranteed for life against imperfect materials or workmanship Normal wear and tear or damage caused through inappropriate use is not covered |
| Country of origin | Germany |

Dimensional details

| Item | Product only | | | | Product on primary packaging | | | |
|--------|--------------|----------|-----------|--------------|------------------------------|----------|-----------|----------------|
| | Width mm | Depth mm | Height mm | Net weight g | Width mm | Depth mm | Height mm | Gross weight g |
| T2301 | 9 | 12 | 115 | 14 | 40 | 11 | 180 | 24 |
| T2302 | 9 | 12 | 115 | 14 | 40 | 11 | 180 | 24 |
| T2307 | 11 | 20 | 145 | 22 | 40 | 11 | 180 | 32 |
| T2308 | 11 | 20 | 145 | 22 | 40 | 11 | 180 | 32 |
| T2308A | 13 | 17 | 145 | 28 | 40 | 17 | 203 | 40 |
| T2309 | 11 | 20 | 140 | 16 | 40 | 11 | 180 | 26 |
| T2313A | 12 | 15 | 160 | 26 | 40 | 17 | 203 | 38 |
| T2314 | 8 | 15 | 150 | 18 | 40 | 17 | 203 | 30 |
| T2315 | 8 | 15 | 150 | 18 | 40 | 17 | 203 | 30 |
| T2316 | 8 | 10 | 105 | 10 | 40 | 11 | 180 | 20 |
| T2317 | 8 | 10 | 105 | 10 | 40 | 11 | 180 | 20 |
| T2318 | 11 | 7 | 130 | 18 | 40 | 11 | 180 | 28 |

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|--------|----|----|-----|----|----|----|-----|----|
| T2319 | 9 | 11 | 120 | 12 | 40 | 11 | 180 | 22 |
| T2327 | 10 | 15 | 155 | 18 | 40 | 17 | 203 | 30 |
| T2328 | 10 | 15 | 155 | 18 | 40 | 17 | 203 | 30 |
| T2330 | 10 | 5 | 110 | 11 | 40 | 11 | 180 | 21 |
| T2331 | 10 | 8 | 115 | 12 | 40 | 11 | 180 | 22 |
| T2334 | 10 | 5 | 120 | 16 | 40 | 11 | 180 | 26 |
| T2336 | 10 | 5 | 120 | 14 | 40 | 11 | 180 | 24 |
| T2339 | 10 | 5 | 115 | 14 | 40 | 11 | 180 | 24 |
| T2340 | 10 | 5 | 110 | 11 | 40 | 11 | 180 | 21 |
| T2341 | 10 | 5 | 110 | 12 | 40 | 11 | 180 | 22 |
| T2343 | 10 | 5 | 130 | 19 | 40 | 11 | 180 | 29 |
| T2345A | 10 | 7 | 140 | 10 | 40 | 11 | 180 | 20 |
| T2349 | 10 | 15 | 120 | 14 | 40 | 11 | 180 | 24 |
| T2351 | 10 | 5 | 115 | 15 | 40 | 11 | 180 | 25 |
| T2354 | 10 | 5 | 115 | 14 | 40 | 11 | 180 | 24 |
| T2359 | 10 | 7 | 150 | 18 | 40 | 17 | 203 | 30 |
| T2360 | 10 | 7 | 120 | 14 | 40 | 11 | 180 | 24 |
| T2364 | 10 | 5 | 105 | 14 | 40 | 11 | 180 | 24 |
| T2381 | 10 | 7 | 120 | 21 | 40 | 11 | 180 | 31 |
| T2390 | 10 | 7 | 130 | 17 | 40 | 11 | 180 | 27 |
| T2391 | 10 | 7 | 130 | 16 | 40 | 11 | 180 | 26 |
| T2392 | 10 | 7 | 130 | 17 | 40 | 11 | 180 | 27 |

| Item | Shelf box (secondary packaging) | | | | Euro Pallet data Wi x Hi | |
|--------|---------------------------------|----------|-----------|----------------|-----------------------------|---------------------|
| | Width mm | Depth mm | Height mm | Gross weight g | No of cartons on base | Number of rows high |
| T2301 | | | | | | |
| T2302 | | | | | | |
| T2307 | | | | | | |
| T2308 | | | | | | |
| T2308A | | | | | | |
| T2309 | | | | | | |

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|--------|--|--|--|--|--|--|
| T2313A | | | | | | |
| T2314 | | | | | | |
| T2315 | | | | | | |
| T2316 | | | | | | |
| T2317 | | | | | | |
| T2318 | | | | | | |
| T2319 | | | | | | |
| T2327 | | | | | | |
| T2328 | | | | | | |
| T2330 | | | | | | |
| T2331 | | | | | | |
| T2334 | | | | | | |
| T2336 | | | | | | |
| T2339 | | | | | | |
| T2340 | | | | | | |
| T2341 | | | | | | |
| T2343 | | | | | | |
| T2345A | | | | | | |
| T2349 | | | | | | |
| T2351 | | | | | | |
| T2354 | | | | | | |
| T2359 | | | | | | |
| T2360 | | | | | | |
| T2364 | | | | | | |
| T2381 | | | | | | |
| T2390 | | | | | | |
| T2391 | | | | | | |
| T2392 | | | | | | |

Packaging waste details

| Item | Primary Packaging | | | | Secondary packaging | | | |
|--------|-------------------|-----|--------|-----|---------------------|-----|--------|-----|
| | Plastic g | Use | Card g | Use | Plastic g | Use | Card g | Use |
| T2301 | 10 | Box | | | | | | |
| T2302 | 10 | Box | | | | | | |
| T2307 | 10 | Box | | | | | | |
| T2308 | 10 | Box | | | | | | |
| T2308A | 12 | Box | | | | | | |
| T2309 | 10 | Box | | | | | | |
| T2313A | 12 | Box | | | | | | |
| T2314 | 12 | Box | | | | | | |
| T2315 | 12 | Box | | | | | | |
| T2316 | 10 | Box | | | | | | |
| T2317 | 10 | Box | | | | | | |
| T2318 | 10 | Box | | | | | | |
| T2319 | 10 | Box | | | | | | |
| T2327 | 12 | Box | | | | | | |
| T2328 | 12 | Box | | | | | | |
| T2330 | 10 | Box | | | | | | |
| T2331 | 10 | Box | | | | | | |
| T2334 | 10 | Box | | | | | | |
| T2336 | 10 | Box | | | | | | |
| T2339 | 10 | Box | | | | | | |
| T2340 | 10 | Box | | | | | | |
| T2341 | 10 | Box | | | | | | |
| T2343 | 10 | Box | | | | | | |
| T2345A | 10 | Box | | | | | | |
| T2349 | 10 | Box | | | | | | |
| T2351 | 10 | Box | | | | | | |
| T2354 | 10 | Box | | | | | | |
| T2359 | 12 | Box | | | | | | |
| T2360 | 10 | Box | | | | | | |
| T2364 | 10 | Box | | | | | | |
| T2381 | 10 | Box | | | | | | |
| T2390 | 10 | Box | | | | | | |
| T2391 | 10 | Box | | | | | | |

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|-------|----|-----|--|--|--|--|--|--|
| T2392 | 10 | Box | | | | | | |
|-------|----|-----|--|--|--|--|--|--|