

Sn42/Bi57/Ag1 2.2% Flux Core Solder Wire 1.0mm 200g

Product Highlights

LOW TEMPERATURE WITH FLUX CORE

Melts at 138°C (281°F)

No-Clean Rosin-Activated

2.2% flux core

Lead-Free

RoHS III and REACH compliant

Specifications

| | |
|----------------------|-------------------------------|
| Alloy: | Sn42/Bi57/Ag1 |
| Wire diameter: | 0.040" (1.0mm) |
| Flux Core: | 2.2% No-Clean Rosin-Activated |
| Flux Classification: | ROM0 |
| Melting Point: | 138°C (281°F) |
| Packaging: | 200g (7.0oz) Spool |

Please Note: Although Sn42/Bi57/Ag1 forms strong joints and is more ductile due to the added 1% Silver, in wire form it is brittle and needs to be handled gently when unspooling. It is normal for spooled Sn42/Bi57/Ag1 wire to have some breaks in it.

Storage and Handling

Store in a non-corrosive, dry environment.

Test Results

| Test J-STD-004 or other requirements as stated | Test Requirement | Result |
|--|--|--|
| Copper Mirror | IPC-TM-650: 2.3.32 | L: No breakthrough |
| Corrosion | IPC-TM-650: 2.6.15 | M: Slight corrosion |
| Quantitative Halides | IPC-TM-650: 2.3.28.1 | L: <0.05% |
| Electrochemical Migration | IPC-TM-650: 2.6.14.1 | L: <1 decade drop (No-clean) |
| Surface Insulation Resistance 85°C, 85% RH @ 168 Hours | IPC-TM-650: 2.6.3.7 | L: ≥100MΩ (No-clean) |
| Visual | IPC-TM-650: 3.4.2.5 | Clear and free from precipitation |
| Conflict Minerals Compliance | Electronic Industry Citizenship Coalition (EICC) | Compliant |
| REACH Compliance | Articles 33 and 67 of Regulation (EC) No 1907/2006 | Contains no substance >0.1% w/w that is listed as a SVHC or restricted for use in solder materials |

Conforms to the following Industry Standards:

| | |
|---|-----|
| J-STD-004B, Amendment 1 (Solder Fluxes): | Yes |
| J-STD-006C, Amendments 1 & 2 (Solder Alloys and Fluxed/Non-Fluxed Solders): | Yes |
| RoHS 2 Directive 2011/65/EU: | Yes |

ChipQuik® Solder Wire Orderable Part Numbers:

| Flux Core | Alloy | Melting Point | Diameter | Size | Orderable Part Number | |
|---|-----------|-----------------------|----------------|---------------|-----------------------|-----------------|
| No-Clean Water-Washable Synthetic Flux Core 2.2% (Except .006" and .008" diameter wire which are 1.2%) | Sn63/Pb37 | 183°C (361°F) | .015" (0.38mm) | 100g (3.5oz) | SMDSW.015 100g | |
| | | | | 0.4 oz | SMDSW.020 .4OZ | |
| | | | .020" (0.5mm) | 1 oz | SMDSW.020 1OZ | |
| | | | | 2 oz | SMDSW.020 2OZ | |
| | | | | 4 oz | SMDSW.020 4OZ | |
| | | | | 1/2 lb | SMDSW.020 8OZ | |
| | | | | 1 lb | SMDSW.020 1LB | |
| | | | .031" (0.8mm) | 0.7 oz | SMDSW.031 .7OZ | |
| | | | | 1 oz | SMDSW.031 1OZ | |
| | 2 oz | SMDSW.031 2OZ | | | | |
| | 4 oz | SMDSW.031 4OZ | | | | |
| | 1/2 lb | SMDSW.031 8OZ | | | | |
| | 1 lb | SMDSW.031 1LB | | | | |
| | Sn60/Pb40 | 183-188°C (361-370°F) | .015" (0.38mm) | 100g (3.5oz) | SMD2SW.015 100g | |
| | | | | 0.4 oz | SMD2SW.020 .4OZ | |
| | | | .020" (0.5mm) | 1 oz | SMD2SW.020 1OZ | |
| | | | | 2 oz | SMD2SW.020 2OZ | |
| | | | | 4 oz | SMD2SW.020 4OZ | |
| | | | | 1/2 lb | SMD2SW.020 8OZ | |
| | | | | 1 lb | SMD2SW.020 1LB | |
| | | | .031" (0.8mm) | 0.7 oz | SMD2SW.031 .7OZ | |
| | | | | 1 oz | SMD2SW.031 1OZ | |
| | | | | 2 oz | SMD2SW.031 2OZ | |
| | | | | 4 oz | SMD2SW.031 4OZ | |
| | | | | 1/2 lb | SMD2SW.031 8OZ | |
| | | | | 1 lb | SMD2SW.031 1LB | |
| | | | Sn62/Pb36/Ag2 | 179°C (354°F) | .015" (0.38mm) | 100g (3.5oz) |
| 0.4 oz | | | | | | SMD3SW.020 .4OZ |
| .020" (0.5mm) | 1 oz | SMD3SW.020 1OZ | | | | |
| | 2 oz | SMD3SW.020 2OZ | | | | |
| | 4 oz | SMD3SW.020 4OZ | | | | |
| | 1/2 lb | SMD3SW.020 8OZ | | | | |
| | 1 lb | SMD3SW.020 1LB | | | | |
| .031" (0.8mm) | 0.7 oz | SMD3SW.031 .7OZ | | | | |
| | 1 oz | SMD3SW.031 1OZ | | | | |
| | 2 oz | SMD3SW.031 2OZ | | | | |
| | 4 oz | SMD3SW.031 4OZ | | | | |
| | 1/2 lb | SMD3SW.031 8OZ | | | | |
| | 1 lb | SMD3SW.031 1LB | | | | |

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ChipQuik® Solder Wire Orderable Part Numbers:

Continued from previous page

| Flux Core | Alloy | Melting Point | Diameter | Size | Orderable Part Number |
|--|--------------------|-----------------------|-----------------|-------------------|-----------------------|
| No-Clean Water-Washable Synthetic Flux Core 2.2% (Except .006" and .008" diameter wire which are 1.2%) | Sn96.5/Ag3.0/Cu0.5 | 217-220°C (423-428°F) | .006" (0.15mm) | 50g (1.8oz) | SMDSWLF.006 50g |
| | | | .008" (0.20mm) | 50g (1.8oz) | SMDSWLF.008 50g |
| | | | .015" (0.38mm) | 0.3 oz | SMDSWLF.015 .3OZ |
| | | | | 1 oz | SMDSWLF.015 1OZ |
| | | | | 2 oz | SMDSWLF.015 2OZ |
| | | | | 4 oz | SMDSWLF.015 4OZ |
| | | | | 1/2 lb | SMDSWLF.015 8OZ |
| | | | | 1 lb | SMDSWLF.015 1LB |
| | | | .020" (0.5mm) | 0.4 oz | SMDSWLF.020 .4OZ |
| | | | | 1 oz | SMDSWLF.020 1OZ |
| | | | | 2 oz | SMDSWLF.020 2OZ |
| | | | | 4 oz | SMDSWLF.020 4OZ |
| | | | | 1/2 lb | SMDSWLF.020 8OZ |
| | | | | 1 lb | SMDSWLF.020 1LB |
| | | | .031" (0.8mm) | 0.7 oz | SMDSWLF.031 .7OZ |
| | 1 oz | SMDSWLF.031 1OZ | | | |
| | 2 oz | SMDSWLF.031 2OZ | | | |
| | 4 oz | SMDSWLF.031 4OZ | | | |
| | 1/2 lb | SMDSWLF.031 8OZ | | | |
| | Sn99.3/Cu0.7 | 227°C (441°F) | .012" (0.3mm) | 100g (3.5oz) | SMD2SWLF.012 100g |
| | | | .015" (0.38mm) | 0.3 oz | SMD2SWLF.015 .3OZ |
| | | | | 1 oz | SMD2SWLF.015 1OZ |
| | | | | 2 oz | SMD2SWLF.015 2OZ |
| | | | | 4 oz | SMD2SWLF.015 4OZ |
| | | | | 1/2 lb | SMD2SWLF.015 8OZ |
| | | | .020" (0.5mm) | 0.4 oz | SMD2SWLF.020 .4OZ |
| | | | | 1 oz | SMD2SWLF.020 1OZ |
| 2 oz | | | | SMD2SWLF.020 2OZ | |
| 4 oz | | | | SMD2SWLF.020 4OZ | |
| 1/2 lb | | | | SMD2SWLF.020 8OZ | |
| .031" (0.8mm) | | | 0.7 oz | SMD2SWLF.031 .7OZ | |
| | | | 1 oz | SMD2SWLF.031 1OZ | |
| | | | 2 oz | SMD2SWLF.031 2OZ | |
| | | | 4 oz | SMD2SWLF.031 4OZ | |
| | 1/2 lb | SMD2SWLF.031 8OZ | | | |
| Solid Wire (No Flux) | In52/Sn48 | 118°C (244°F) | .031" (0.8mm) | 10 feet | SMDIN52SN48 |
| | In97/Ag3 | 143°C (289°F) | .031" (0.8mm) | 10 feet | SMDIN97AG3 |
| | In100 | 157°C (315°F) | .031" (0.8mm) | 10 feet | SMDIN100 |
| | Sn42/Bi57/Ag1 | 138°C (281°F) | .030" (0.762mm) | 32 feet | SMDSWLTLP32 |
| No-Clean Rosin-Activated Flux Core 2.2% | Sn42/Bi57/Ag1 | 138°C (281°F) | .040" (1.0mm) | 10g (0.35oz) | SMDSWLT.040 10g |
| | | | | 20g (0.7oz) | SMDSWLT.040 20g |
| | | | | 50g (1.8oz) | SMDSWLT.040 50g |
| | | | | 100g (3.5oz) | SMDSWLT.040 100g |
| | | | | 200g (7.0oz) | SMDSWLT.040 200g |