

Sn62Pb36Ag2 FC5005

Halide Free No Clean Core Wire

Product Description

Over the last two decades, the electronics industry has been experiencing a rapid growth due to increasing use of electronic products in our daily life. The primary trend in these products design is miniaturization. Products such cellular phones, personal computers and camcorders, are lighter, smaller, less expensive and at the same time, faster, more powerful, reliable, user-friendly and functional.

Using high purity chemicals and halide-free materials, FC5005 gives a non-corrosive, minimal, clear yellow tinted residue due which exhibits excellent electrical and thermal insulation properties. FC5005 is highly recommended for use in the No-Clean process environment, thus eliminating the cost of cleaning.

Application

Sn62Pb36Ag2 FC5005 no clean core flux solder wire is easy to use for automatic, manual, rework, point and brush soldering. For the best soldering results, the recommended parameters are shown:

Solder Iron Tips: All Types especially the tapered types
 Soldering Temp: > 320°C
 Soldering Time: 1 - 3 secs

- Keep solder iron tips clean.
- Tinned iron tips before use.
- Wear gloves when soldering to avoid contaminating the wire.

(Note: Soldering parameters are dependent on tip type, soldering station wattage configuration, wire diameter and type of applications.)

Specification

| Item | Result |
|---|--------------------------------|
| Alloy Composition | Sn62Pb36Ag2 |
| Flux Content | 2.0 +/- 0.2 wt% |
| Density of Core Flux @ 25°C | 0.866 |
| Halide Content | Not added |
| JIS Z 3197 8.1.4.2.1 | |
| Water Extract Resistivity | > 1 x 10 ⁴ Ω-cm |
| JIS Z 3197 8.1.1 | |
| Surface Insulation Resistance (85°C, 85%RH, 168hrs) | > 1 x 10 ⁸ Ω, Pass |
| IPC-TM-650 2.6.3.3 | > 1 x 10 ¹¹ Ω, Pass |
| JIS Z 3197 8.5.3 | |
| Electromigration (85°C, 88.5%RH, 596hrs) | Pass |
| IPC-TM-650 2.6.14.1 | |
| Copper Corrosion Test | Pass |
| IPC-TM-650 2.6.15 | |
| JIS Z 3197 8.4.1 | |
| Copper Mirror Test | Classified as "L", Pass |
| IPC-TM-650 2.3.32 | |
| JIS Z 3197 8.4.2 | |
| Flux Activity Classification | ROLO |
| IPC J-STD-004 | |
| Spread Factor | > 90% |
| JIS Z 3197 8.3.1.1 | |
| Residue Dryness Test | Dry |
| JIS Z 3197 8.5.1 | |
| Residue Appearance | Clear Tint Yellow & Minimal |

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RESIDUAL REMOVAL

Since the residues are transparent, minimal, dry, non-tacky and practically inert after soldering, removal is usually not necessary. For assemblies that require cleaning, the residue of Sn-62Pb36Ag2 FC5005 no clean core flux solder wire can be completely removed by any solvent type flux cleaner available in the market.

STORAGE

Store the solder wire in a cool, dry and non-corrosive environment. Wrap up the solder wire when not in use to reduce exposure to environment. Sn62Pb36Ag2 FC5005 no clean core flux solder wire can be kept for 2 years if proper storage conditions are observed.

HEALTH and SAFETY

Wear a chemical mask if the operators are allergic to the fumes released during soldering. For more information, please refer to Material Safety Data Sheet.

PACKAGING

Sn62Pb36Ag2 FC5005 no clean core flux solder wire is commonly available in various diameters such as 0.5, 0.6, 0.8, 1.0, 1.2, 1.6 and 2.0 mm. For different diameters, please specify your requirements.

| | | | |
|---------------|------------|------------|------------|
| Packaging | 0.25kg | 0.50kg | 1.0kg |
| Diameter (mm) | 0.5 to 2.0 | 0.5 to 2.0 | 0.8 to 2.0 |

DISCLAIMER OF LIABILITY

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