

Catalogue of Vital Products

Microelectronic Soldering Materials

- Solder Paste
- Solder Wire
- Solder Bar
- Solder Preform

Microelectronic Auxiliary Soldering Materials

- Flux
- Cleaner
- Diluent
- Conformal Coating

Others

- Thermally-Conductive Materials
- Electronic Glue
- Solder Ball



01 Solder Paste

We have a number of national invention patents and key core technologies of solder paste.



Cold-free



Ultrafine Powder



Halogen Zero



Low void



Low Temperature



Product Categories

SMT Solder Pastes, Low Void High Strength Solder Pastes, Fine Pitch Halogen-free High Reliability Solder Pastes, Highly Active Vertical Climbing Solder Pastes, Low Temperature High Reliability Solder Pastes, Dispensing Solder Pastes, Die Attach Solder Pastes, Semiconductor Pastes, Special Performance Solder Pastes.

02 Solder Wire

Vital is the first corporate in the industry to use real-time monitoring of rosin content in the production process to ensure that there's no broken core.

Wital's no-broken-coring solder wire has been awarded national invention patents, and widely used in robotic automatic welding process.



Features

No Broken Core

Thanks to the evenly distributed flux inside, the solder wire is continuity good and without broken core.

No Knots

Neat and flat thread winding. No tangles in the thread alignment.

Less Corrosion

Less corrosive to solder tip.

Less Splashing

Minimal solder splashing.
Less Smoke.

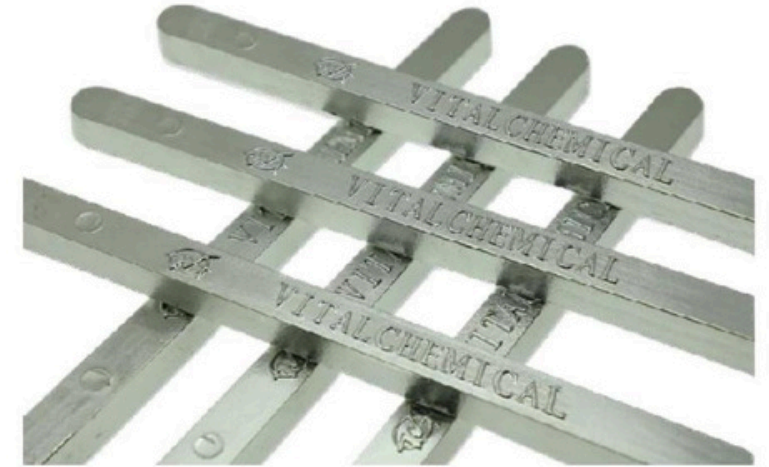
Good Spreading Performance

High thermal conductivity.
Fast spreading speed.
Good wetting performance.

* Exactly the right solution for your application, adapted to your needs.

03 Solder Bar

Made from high purity raw tin, Vital solder bars are manufactured under strict process control in international advanced manufacturing methods. They are fully compliant with IPC and national standards and can be customized of various metal alloy compositions.



Features

1

Excellent anti-oxidation ability.
minimal post-process residues

2

With high-purity primary
tin and adaptive metals.

3

The surface of tin liquid is
smooth and flat after melting.

* Exactly the right solution for your application, adapted to your needs.

04 Solder Preform

It can be customised to different shape and size for specific welding requirements, offering advantages such as good solderability, no-clean chemistry, low void, and good soldering consistency.



Features

1

Precoated soldering flux is uniform distributed with deviation range $\leq 5\%$.

2

Dimensions can be held to tight tolerances ($\leq 0.05\text{mm}$).

3

The flux on the surface is dry and non-stick.

4

Excellent solderability. Low void.

* Exactly the right solution for your application, adapted to your needs.

05 Flux

With completely independent research and development, the Vital fluxes are awarded a number of national invention patents such as "Halogen-free low solids water-based no-clean flux". Furthermore, Vital have received lots of important honors in China.



Features

Universal flux

- Excellent tin permeability
- Minimal residue
- Good cleaning properties
- High insulation resistance
- Reliable electrical performance

VOC-free flux

- Safety, VOC free.
- Non-flammable Minimal residue.
- Good cleaning properties.

Product Categories

PCBA Flux, VOC-free Flux, Photovoltaic Flux, Electronic Components Flux, Metal Flux.

06 Cleaner



Solvent Based Cleaner

It is an alternative to trichloroethylene cleaning to improve the environmental performance.

Water-based Cleaner

- Meet the requirements of Apple, GreenScreen Certified;
- Total phosphorus (TP) : ND, Total Nitrogen(TN): ND;
- Comply with environmental regulations such as RoHS、 REACH 、 GB38508, HF, etc.
- It's easy to rinse and good compatibility with materials of PCBA, semiconductors, etc.
- It has great cleaning effect and can be widely used in various cleaning methods, cleaning equipment and processes.

Product Categories

PCBA Cleaner, Tooling Fixture Cleaner, Water-based Cleaner, Hardware Cleaner.

07 Conformal Coating

Vital's conformal coating can protect PCBs and advanced substrates from shock, moisture, corrosive fluids and other adverse environment. It enables marine, automotive, medical and consumer electronics to extend their life cycle without being affected by the harsh environments.



Features

Excellent Tolerability

Excellent thermal stability, moisture resistance, salt spray resistance, anti-fungal, antistatic and insulating properties.

Good Antifading Property

Keep good barrier property in long-term temperature variation and moisture environmen.

Great Compatibility

It is good adhesion with PCBs and compatible with all base materials on them.

Convenient for Tests

With index of fluorescence, it's convenient to test.

08 Thermally-Conductive Materials



Thermal Grease



Thermal Pads



Conductive Mud



**Phase Change
Material**



**Conductive
Glue**

Continuous technological innovation to match the needs of industry development deeply

Research Interests

High Reliability

- Non-drying Auxiliaries SIR
- Ultra-fine Device Confined SIR
- Compatibility of Underfill

Refinement

- Ultra-fine Powder Solder Paste Alloys
- performances of high temperature oxidation resistance
- Super-precision Printing Solder Paste
- 3D Assembly Solder Paste

Low Temperature Welding

- High strength Low Temperature Alloy solder paste
- High reliability, good shear strength and low temperature welding technology

Flux

- Halogen free and high reliability flux.
- Zero halogen low solid high reliability flux.

Cleaner

- Low VOC water-based cleaning technology.
- Non-ODS cleaning technology.