



# EPC (USA) TECTITE FITTINGS

Another quality product from Teck Leong Metals Pte Ltd

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| <br>200   | <br>201   | <br>201R   | <br>203 |
| <br>203R  | <br>204   | <p><b>WHY TECTITE?</b></p> <ul style="list-style-type: none"> <li>• <b>Heat Free</b> – Reduces Fire Hazard; Utilises Push Fit Technology.</li> <li>• <b>Fast &amp; Simple</b> – Tool Free Easy Installation.</li> <li>• <b>Connect in under 8 seconds.</b></li> <li>• <b>Clean</b> – Heat Free; No Glues, Fluxes or Solder needed.</li> <li>• <b>No Consumable Materials</b> – Reduces Material Cost and Storage.</li> <li>• <b>Removable &amp; Reusable Installation.</b></li> <li>• EPDM “O-ring” Design for Leak Free Seals.</li> <li>• Pre-lubed for Quick Installation.</li> <li>• Ideal for Service and Repair even on wet lines.</li> <li>• Low Lead and Lead Free Designs.</li> <li>• Joins Copper, CPVC and PEX Tubing.</li> <li>• AWWA C800 Compliant.</li> <li>• <b>50 Year Warranty.</b></li> </ul> <p>Teck Leong Metals Pte Ltd is an authorised distributor of Elkhart Products Corporation. We work closely with EPC to offer our customers an extensive range of EPC high quality fittings.</p> <p>As part of the family of companies that invented the push fitting over 15 years ago, EPC is living up to its’ tradition of innovation. Our line extension now gives you more fittings for more applications – in sizes from 1/4” to 2”. No other push fitting manufacturer offers both the size and breadth of the TECTITE™ line of push fittings.</p> <p><b>* COMPETITIVE PRICING *</b><br/> <b>* PROMPT DELIVERY *</b><br/> <b>* HIGHEST QUALITY *</b><br/> <b>* WIDE RANGE OF SIZES *</b><br/> <b>* GOOD SALES SUPPORT *</b></p> |  |
| <br>204R  | <br>206   |  |  |
| <br>207   | <br>211   |  |  |
| <br>211R | <br>217  |  |  |
| <br>218 | <br>219 |  |  |

## About Us

TLM has paved the way to introduce top quality products by setting up business ties with internationally reputable mills and manufacturers worldwide. We are the exclusive distributor for international products such as **EPC (USA) fittings** and **WILKO (KOREA) Copper pipes**.

Regular site visits and dialog sessions are conducted between TLM and our mill representatives to share expert insights on the latest product developments in the market. These sessions enable us to apply our expertise and knowledge to satisfy the most demanding challenges of present day quality conscious markets.

We will continue to upgrade and build-on our in-depth expertise to invest and introduce new product grades and range to better suit the diverse needs of our customers. We are fully equipped to provide the best service, timely deliveries and product quality at competitive prices for all and we aim to forge strong and long-term business ties with our valued customers.

That is our commitment to you.

## Why Us

- We are an ISO 9001:2008 Certified company and a statutory member of the S'pore Business Federation and S'pore Metal & Machinery Association.
- TrustSg Accredited.
- Leading stockist of only Top Quality Materials from reputable manufacturers worldwide.
- Offers Highly Competitive Pricing, Resourceful, Experienced and Efficient.
- Prompt Deliveries Tracked using GPS Technology.
- Excellent Customer Support and Valued-added services.



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## Frequently Asked Questions (FAQ)

Answers to Using TECTITE Fittings with Certain Chemicals and Applications:

- Yes: Hot Water (up to 250°F) at a maximum working pressure of 200 psi
- Yes: Chilled Water 0° to 80°F at a maximum working pressure of 200 psi
- Yes: Vacuum
- Yes: Water Glycol Mixture (approved glycols: ethylene, propylene, butylene, glycol – up to 100% concentration)
- Yes: Air, Compressed (oil content less than .025 ppb)
- Yes: Window Washer Fluid
- Yes: Oxygen (note: Oxygen for medical gas application – NO)
- Yes: Nitrogen (maximum working pressure 140 psi)
- Yes: Argon (maximum working pressure 140 psi)
- No: Low Pressure Steam (maximum working pressure 15 psi)
- No: Chlorine
- No: Medical gas
- No: Solar (Contact EPC to review the application)
- No: All Petroleum Products (e.g., oil, grease, diesel fuel, gasoline)
- No: DWV Pipe (pipe wall too thin)
- No: Copper tube with wall thickness less than ASTM B88 Type M
- No: Natural Gas – Propane – Fuel Gases
- No: Refrigerants (Contact EPC to review the application)
- No: Fire Protection Systems
- No: Paint Lines like those found in car manufacturing plants (TECTITE fittings contain silicone lubricant)

### Is a TECTITE fitting removable?

- Yes, with removal accomplished using a TECTITE removal tool available from EPC.

### Is a TECTITE fitting re-useable?

- Yes, following new fitting installation procedures.

### Is there a limit on the number times a TECTITE fitting may be re-used?

- Following new fitting installation procedures allows re-use numerous times.

### What is the procedure for soldering near a TECTITE connection?

- Stay at least 12 inches away from the connection. If 12 inches is not possible, installer should take proper precautions to keep the joint cool while soldering.
  1. Wrap the joint with a cold wet rag.
  2. Fabricate solder joint prior to installing the pressed fitting, making sure pipe is cooled before installing fitting.
  3. Use "spray type" spot freezing product.

### As an inspector, how do I know if I am looking at a good joint?

- Check that the position of the depth insertion mark on the tube exterior surface is adjacent to the end of the TecTite fitting, then pressure test the joint in same manner as a solder joint.

### With what are the sealing elements in TECTITE fittings lubricated?

- The seals are lubricated with an ANSI/NSF 61 listed silicone grease. If it is necessary to lubricate the seals in the field, use water only. Do not use other lubricants. In particular, do not use any petroleum-based lubricants (petroleum and EPDM are incompatible).

### How long will the EPDM seal last?

- When properly installed the EPDM seal and connection will last as long as the copper pipe with which it is joined (50+ years).

### How was the life testing conducted for the seals and fittings?

- Life testing is performed per the requirements of ASSE 1061.

### How do I fabricate a system in tight places when using TECTITE?

- If necessary, pre-fabricate connections that are in tight places and then install.

### Does the TECTITE system require the use of special valves?

- No. Users can continue with their favourite valve line by using the threaded adapters or by stubbing-out the valves. EPC also offers a line of valves that has TECTITE adapters already assembled and thread-locked to the valve body to simplify installation.

### What is the warranty for TECTITE?

- TECTITE fittings carry a 50-year warranty against defects in material and workmanship from the manufacturer, EPC.



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## Can you turn a TECTITE fitting on the tube without damaging the integrity of the joint?

- Yes. The fitting can be turned (rotated) after assembly and will not affect the integrity of the joint. Installers should take this product feature into consideration and support tube assemblies during installation and in the final installation.

## Is TECTITE approved for underground use?

- Tectite fittings are approved for underground installation, which should be done in accordance with local plumbing and mechanical codes, and practices.

## To what degree does the temperature rating go up or down as pressure in a TECTITE system changes?

- The TECTITE pressure rating is 200 psi working pressure and 600 psi test pressure at all temperatures between 0°F and 250°F. These values are well above the working temperatures of 180°F for PEX and CPVC, and well within the working pressures of 100 psi for PEX, and 200 psi for CPVC.

## How do TECTITE joints hold up to freezing temperatures?

- Water systems should not be allowed to freeze. When water freezes, it expands and creates pressures that exceed plumbing system pressure capabilities – i.e. tubes and fittings may burst!

## What should a user do if a TECTITE system leaks?

- In general, TECTITE fittings only leak due to one of three reasons:
  1. The water pipe was not properly chamfered prior to installation
  2. The tubing was not properly inserted
  3. The O-Ring was damaged at insertion
- A leaking TECTITE fitting cannot be repaired. The fitting must be replaced.

## Is TECTITE compatible with the cleaning agents used to disinfect a new plumbing system?

- Yes.

## Is a TECTITE fitting compatible with existing Polybutylene pipe (PB) installations?

- No. The age of existing PB installations typically cause the pipe to become brittle. This combined with notch sensitivity typical of PB doesn't work well with the technology used in TECTITE fittings. Tube liners are not available for use with PB pipe.

## What should be done if a user accidentally cuts the seal with the copper tubing?

- If the seal is damaged by inserting the copper pipe, the fitting must be replaced. Please note the following:
  1. The tube must be chamfered as detailed in the instruction manual before installation. This will prevent damage to the seal.
  2. The tube should not be inserted into the fitting at an angle.
  3. Rotate the tube as it is inserted into the TECTITE fitting. This aligns the tube and fitting during installation.
  4. The tube must be inserted until the depth mark on the tube OD is aligned with the end of the fitting.

## Is an OD chamfer required if I use a replacement-type cutter wheel?

- Yes. Failure to chamfer the tube OD will result in a damaged o-ring and a leak. Failure to chamfer the tube voids the fitting warranty.

## Can TECTITE repair couplings be used with all tube material types?

- No. TECTITE repair couplings can only be used with copper tube. Using a repair coupling with CPVC or PEX tube can result in OD scoring of the tube which can cause leakage past the o-ring seal.

## Can TECTITE stainless steel braided hose products be used with pressurized air or enclosed behind a wall?

- No. TECTITE hose products are designed specifically for use with water and should only be installed in locations that are accessible by access panels or fully exposed.

## Is a TECTITE push-connect fitting joint electrically conductive?

- Yes. The copper tube and the fitting body are in intimate contact once the tube is fully inserted.



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## Product Certification

Elkhart Products Corporation manufactures products which meet the following specifications:

- ASME B16.15 Cast Bronze Threaded Fittings
- ASME B16.18 Cast Copper Alloy Solder Joint Pressure Fittings
- ASME B16.22 Wrought Copper and Copper Alloy Solder Joint Pressure Fittings
- ASME B16.23 Cast Copper Alloy Solder Joint Drainage Fittings - DWV
- ASME B16.24 Bronze Pipe Flanges and Flanged Fittings
- ASME B16.26 Cast Copper Alloy Fittings for Flared Copper Tube
- ASME B16.29 Wrought Copper & Wrought Copper Alloy Solder Joint Drainage Ftgs-DWV
- MSS SP104 Wrought Copper Solder Joint Pressure Fittings
- MSS SP106 Cast Copper Alloy Flanged Fittings; Class 125,150 and 300
- MSS SP109 Welded Fabricated Copper Solder Joint Pressure Fittings
- MSS SP123 Non Ferrous Threaded & Solder Joint Unions For Use With Cu Water Tube

EPC's Wrot Copper Solder Joint Fittings are manufactured to comply with the material performance and installation/joining dimensions of ANSI B16.22-1995. The materials used to manufacture these fittings are also in compliance with the following specifications:

## Tubular Wrought Copper:

- ASTM B75 Alloy C12200, Standard Specification for Seamless Copper Tube, or

## Products Made From Sheet:

- ASTM B152 Alloy C11000, Standard Specification for Copper Sheet, Strip, Plate and Rolled Bar.

## Cast Products:

- ASTM B584 Alloy C84400, Standard Specification for Copper Alloy Sand Castings for General Applications. Federal Specification WW-U-516 for Type 111, Class A and Class B Copper Alloy Unions.

## Fitting Material:

- Copper Alloy #122, Phosphorus Deoxidized-High Residual Phosphorus (DHP).

## Typical Chemical Composition:

- Copper: 99.9% , Phosphorus: 0.015-0.40%

## Dimensions & Specifications:

EPC Welded fittings are produced in accordance with specifications shown in Manufactures Standardization Society (MSS) SP-109 for wrought copper & copper alloy solder-joint pressure fittings.

## Testing:

Each fitting is individually tested with air under water. The burst pressure of EPC welded fittings exceeds the recommended working pressure of comparable diameter, annealed, straight, seamless ASTM B88-96-A type L copper water tube by a safety factor of 4:1 or more.

## The Advantages of Fittings From EPC:

- **American Made, American Strong** – 50-year Manufacturer Warranty.
- **Reduced Installation Costs** - EPC Wrot Copper Fittings heat up more rapidly than cast and thus effect a savings in time and fuel.
- **Smooth Inside Surface** - Being fabricated from copper tube, EPC Wrot Fittings have no rough surfaces to collect waste or deter flow.
- **Full Flow Capacity** - EPC Wrot Fittings have the same inside diameters as the rest of the installation.
- **Wrot Copper** - The physical properties of copper tube from which EPC Wrot Fittings are made eliminate the danger of leakage from sand holes or poor castings.
- **Less Bulky than Cast** - This facilitates handling, particularly on prefab installations, yet EPC Wrot Fittings have the same strength as tube. This can also be a money saver on transportation costs.
- **More Rugged** - Due to fabrication processes, EPC Wrot Fittings are stronger and more rugged than tube with which they are used.
- **Priced Competitively** - EPC Wrot Fittings cost no more than their cast counterparts.
- **Neat Appearance** - In matching the colour and appearance of the tube, EPC Wrot Fittings contribute toward a neater and more workmanlike installation.
- **Accurate Pitch** - EPC Wrot Fittings are made with accurately machined dies which ensure the proper pitch required for installations.
- **Boxed and Labelled** - EPC Fittings are boxed in convenient quantities to facilitate handling and storage, and for protection against damage and dirt. Box contents are easily identified by bar coded, easy-to-read labels.



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