

# Our Zinc Plated Steel Tube Tent Poles

Cold Rolled steel is the raw material used by tube makers to manufacture the tube used in our Outdoor and Camping range of products.

The raw tube has a very fine coat of oil protecting it against corrosion. All raw poles going through a process of zinc electroplating are covered with this special corrosion inhibiting oil, and need to have this oil removed during the cleaning /pickle stage. Otherwise nothing will stick to the raw steel tube.

The following process is used in Zinc Electroplating to turn the raw tube into a finished product.

1. Degreasing – removes all oils and forming lubricants
2. Rinse
3. Electroplating
4. Rinse
5. Hydrochloric Acid Pickle. – Removes Scale and rust.
6. Rinse
7. Rinse
8. Acid Zinc Plating
9. Acid Zinc Plating
10. Rinse
11. Rinse
12. Hexavalent Blue Passivate
13. Olive Drap Passivate
14. Rinse
15. Hot Rinse

Poles are now Zinc Plated

During this process the zinc is transferred to the outside of the tube (nice shiny finish) however it cannot be transferred to the inner part of the tube.

Some poles have a reddish-brown residue inside the tube that looks dirty or rusty, this is caused by the degreasing and the Hydrochloric acid and pickle processes and it has no effect on the outside of the pole nor the strength or the use of the poles.