



## Technical Bulletin

### TSC PURALLOY 99C SOLDER ALLOY

#### DESCRIPTION

TSC Puralloy 99C solder alloy is a eutectic lead free alloy used for a variety of industrial and plumbing applications. This alloy has a higher temperature than the more traditional leaded alloys which may be better suited when step soldering. This alloy can be used in plumbing applications for potable water systems and is ideal for brass and copper connections, as it meets the relevant health & safety requirements.

TSC Puralloy 99C alloy is also ideal for use in sheet metal fabricators, radiator repairs outlets and motor rewind companies due to its higher operating temperatures, excellent flow characteristics and general strength properties.

TSC PURALLOY 99C solder alloy is available in Bars, Tinman, Blowpipe and Solid Wire formats. Chunks & Pellets are also available to assist in new pot fills or smaller dipping pots on request.

#### Product Features & Benefits

- Lead-free Solder Alloy for use on potable water supplies.
- Manufactured to BS EN 29453.
- Excellent Solderability
- Melting point of 227-228°C
- Specific Gravity (g/m<sup>3</sup>) 7.28
- Shear Strength (MPa) 37
- Electric Resistivity (10<sup>-9</sup> ohm-m) 144
- Thermal Conductivity (W/m-k) 40.09

#### TYPICAL COMPOSITION

| Typical Alloy Composition |         |
|---------------------------|---------|
| Sn: 99C                   | Cu: 0.7 |

#### MELTING TEMPERATURE RANGE

| Typical Melting Temperature |
|-----------------------------|
| 227°C                       |

#### HANDLING & STORAGE

Indefinite shelf life applies to solid solder. For other product categories, refer to those specific TDSs. Consult TSC PURALLOY 99C MSDS for additional handling procedures and precautions.

| Parameter  | Time       | Temperature      |
|------------|------------|------------------|
| Shelf Life | Indefinite | Room Temperature |

#### HEALTH & SAFETY

Use with adequate ventilation and proper personal protective equipment. Refer to the accompanying Safety Data Sheet for any specific emergency information. Do not dispose of any hazardous materials in non-approved containers.

The information contained herein is based on data considered accurate and is offered at no charge. No warranty is expressed or implied regarding the accuracy of this data. Liability is expressly disclaimed for any loss or injury arising out of the use of this information or the use of the materials designated.