SOLDER CONNECTION
Email: sales@solderconnection.co.uk | Tel: +44(0)1291 624 400

Technical Bulletin

Issue 1 - 09/05/23

TSC PURALLOY® GRADE F SOLDER ALLOY

DESCRIPTION

Puralloy® Grade F 50/50 is a leaded solder alloy incorporating lead and tin, with a melting range of between 183-212° C. This leaded alloy is used in a variety of industrial soldering applications including general engineering work on copper, brass & zinc. This alloy can also be used within Stained Glass Manufacture for both leaded and copper foiled applications. Incorporating a lower tin content than other leaded industrial alloys, Grade F offers a more cost-effective option for soldering.

Garde F solder has similar physical properties as the other leaded alloys, including a pasty range which allows for movement and re-alignment before returning to solid. Grade F has a duller finish, which can sometimes be an advantage when again compared to higher tin materials

TSC Puralloy® Grade F solder alloy is available in a variety of formats 1 kg Bars, 3kg Ingots & Feed Wire. Chunks & Pellets are also available to assist in new pot fills on request.

Product Features & Benefits

- Leaded Solder Alloy
- BSEN29453 Alloy Number 13
- Melt Point – 185-212°C
- Ideal for Industrial & applications including Stained Glass manufacture.
- Available in a range of formats including Bar, Tinman Sticks, Blowpipe and Feed Wire

TYPICAL COMPOSITION

Typical Alloy Composition	
Sn: 50	Pb: 50

MELTING TEMPERATURE RANGE

Typical Melting Temperature
185 - 212°C

TECHNICAL SPECIFICATIONS

	Specifications
Density (g/cm³)	8.87
Electrical Resistivity (µΩm)	0.158
Thermal Conductivity (W/m K)	48
Tensile Strength (Kgf/cm2)	420
Tensile Elongation at Break (%)	35
Brinell Hardness (HB)	14

HANDLING & STORAGE

Indefinite shelf life applies to solid solder. For other product categories, refer to those specific TDSs. Consult **Sn50 Pb50** MSDS for additional handling procedures and precautions.

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.