



### TSC PURALLOY® GRADE C SOLDER ALLOY

#### DESCRIPTION

Puralloy® Grade C 40/58/2 is a leaded solder alloy incorporating lead, tin, and antimony, with a melting range of between 183-231°C. Historically Grade C was the go to leaded alloy for most industrial and plumbing applications. This is due to its good pasty range, which allows for movement and re-alignment before returning to solid. Grade C includes 2% antimony, if the inclusion of antimony is not preferential the Grade G should be considered.

TSC Puralloy® Grade C 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 14
- Melt Point – 185-231°C
- Ideal for Industrial & Plumbing applications
- Available in a range of formats including Bar, Tinman Sticks, Blowpipe and Feed Wire.

#### TYPICAL COMPOSITION

Typical Alloy Composition		
Sn: 40	Pb: 58	Sb: 2

#### MELTING TEMPERATURE RANGE

Typical Melting Temperature
185- 231°C

#### TECHNICAL SPECIFICATIONS

	Specifications
Density (g/cm <sup>3</sup> )	9.28
Electrical Resistivity (μΩm)	0.171
Thermal Conductivity (W/m K)	44
Tensile Strength at break (kgf/cm <sup>3</sup> )	380
Tensile Elongation at Break (%)	25
Brinell Hardness (HB)	12

#### HANDLING & STORAGE

Indefinite shelf life applies to solid solder. For other product categories, refer to those specific TDSs. Consult **Sn40, Pb58,Sb2** 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.

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