



SOLDER CONNECTION

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Technical Bulletin

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TSC PURALLOY® GRADE G SOLDER ALLOY

DESCRIPTION

Puralloy® Grade G 40/60 is a leaded solder alloy incorporating lead and tin, with a melting range of between 183-234° C. This leaded alloy has similar properties to Grade C, without the incorporation of antimony. Historically this alloy is used for a wide range of Industrial and plumbing applications, whilst being favored within Fabrication processes due to its wide pasty range which allows for movement and re-alignment before returning to solid.

Grade G Incorporate a lower tin content than other leaded industrial alloys, making it a more cost-effective option for soldering. Grade G has a duller finish, which can sometimes be an advantage when again compared to higher tin materials. For soldering to brass or copper alloys, Bakers Soldering Fluid should be considered.

TSC Puralloy® Grade G 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 5
- Melt Point – 185-234°C
- Ideal for Industrial & applications including fabrication
- Available in a range of formats including Bar, Tinman Sticks, Blowpipe and Feed Wire

TYPICAL COMPOSITION

Typical Alloy Composition	
Sn: 40	Pb: 60

MELTING TEMPERATURE RANGE

Typical Melting Temperature
185 - 234°C

TECHNICAL SPECIFICATIONS

	Specifications
Density (g/cm³)	9.28
Electrical Resistivity (μΩm)	0.171
Thermal conductivity (W/m K)	44
Tensile Strength (kgf/cm²)	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 Pb60** 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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