

KEWEI INDUSTRIES HK LIMITED

Technical Data Sheet (TDS) for Solder Bar 6337

Product Name

63/37 Tin-Lead Solder Bar (Sn63Pb37)

Composition

Tin (Sn): 63%

Lead (Pb): 37%

Additives: Trace antioxidants to enhance oxidation resistance

Physical Properties

Melting Point: 183°C (Eutectic Point)

Density: 8.39 g/cm³

Appearance: Bright silver-white metallic bar

Form: Solid rectangular bar (standard size: 327mm × 20.5mm × 17.3mm, 1kg net weight)

Chemical Properties

Stability: Forms a protective oxide layer in air; stable under normal storage conditions.

Solubility: Insoluble in water; soluble in strong acids and alkalis.

Applications

Soldering Processes: Ideal for wave soldering, hand immersion soldering, and manual soldering of electronic components.

Industries: Electronics manufacturing, circuit board assembly, automotive electronics, and general metal joining.

Advantages:

Excellent wetting and flow characteristics for reliable solder joints.

Low oxidation rate reduces slag formation, minimizing material waste.

High thermal conductivity ensures efficient heat transfer during soldering.

Processing Parameters

Recommended Soldering Temperature: 230–250°C (adjust based on equipment and joint complexity).

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Flux Compatibility: Works with rosin-based (R, RMA, RA) and water-soluble fluxes.

Safety Information

Hazardous Substances: Contains lead, which is toxic if inhaled or ingested. Avoid prolonged contact with skin.

Ventilation: Use in well-ventilated areas to prevent fume inhalation.

Handling: Wear protective gloves and safety glasses. Store in a cool, dry place away from direct sunlight.

Compliance

Meets international standards for leaded solders (e.g., IPC/JEDEC J-STD-006).

Not compliant with RoHS directives due to lead content; suitable for non-RoHS applications.

Storage

Store in original packaging at temperatures below 30°C to prevent oxidation. Avoid exposure to moisture or corrosive environments.

Packaging

Standard packaging: 1kg per bar, packed in sealed moisture-resistant bags. Bulk options: 20kg–25kg per carton.

Prepared by: KEWEI INDUSTRIES HK LIMITED

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