



97SC (SAC 305) Bar

October 2006

Lead Free Solder Alloy for Electronics

PRODUCT DESCRIPTION

Multicore® 97SC (SAC305) alloy is designed to be a lead free substitute for tin/lead alloys in most electronics assembly soldering operations. Some advantages of Multicore® 97SC are:

- Best all-around lead-free alternative
- Proven in production use for electronics manufacturing
- Lowest melting point high-tin, lead free alloy without undesirable additions
- Enhanced wetting characteristics
- Meets or exceeds QQ-S-571, J-STD-006 and JIS Z 3282 Class A requirements

Properties of Alloy

Alloy composition:

Element	97SC Bar Solder %
Sn	96.5±0.5
Pb	<0.05
Sb	<0.1
Cu	0.5±0.1
Ag	3.0±0.2
Al	<0.001
As	<0.03
Bi	<0.1
Cd	<0.001
Fe	<0.02
Ni	<0.005
Au	<0.005
Zn	<0.001

Packaging:

Multicore® 97SC Bar Solder is sold in economical 1000 and 2000 lbs. pallets.

Data Ranges

The data contained herein may be reported as a typical value and/or range. Values are based on actual test data and are verified on a periodic basis.

Note

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Loctite Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Loctite Corporation's products. Loctite Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Loctite Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

TYPICAL PROPERTIES

Table 2

97SC Bar Solder	
Density gm/cc	7.4
Melt Point	217-219C
Tensile Strength MPa	29.7

GENERAL INFORMATION

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

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