

ALPHA® EXACTALLOY® Preforms

Wire Stick Preform - Sn42Bi58 Alloy

DESCRIPTION

ALPHA Exactalloy Preform wire sticks are primarily used for rework operations and touch up soldering of SnBi alloy based assemblies. The wire sticks are available in two diameters, enabling the user to optimize the rework operation depending on the specific need.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES & BENEFITS

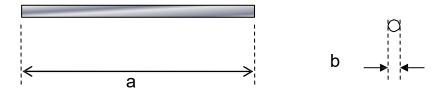
Features

- Various diameter round solid wire stick preforms (1 to 9mm diameter)
- Ideal for solder touch up and rework operations with SnBi based solder alloys
- 350 to 450 mm length (13.75 to 17.7" long)
- Precut SnBi wire segments preforms also available

Benefits

- Enables rework of SnBi alloy while maintaining alloy consistency
- Eliminates the need for additional reliability studies to verify performance due to rework with alternate alloy
- The use of SnBi wire sticks for rework and hand soldering of SnBi based alloys maintains reliability aspects of the original alloy

PRODUCT INFORMATION



Tolerances on the part dimensions: ±1mm for a and ±10% for b



Item #	Part dimensions					
	а		b			
	mm	inch	mm	inch		
54018	350	13.78	1.0	0.039		
47235	450	17.72	9.0	0.351		
143207	4.17	0.163	1.57	0.061		

NOTE:

In some regions, the ordering part number may be different than the Item number shown here.

Other wire stick preform sizes are available upon request.

Please contact your local Alpha Sales Office.

Packaging: Wire sticks are shipped in bulk and sold according to weight.

There is a 4 kg minimum order quantity.

APPLICATION GUIDELINES

ALPHA Exactalloy SnBi wire stick preforms are the preferred product for rework and touch up when the primary solder alloy is SnBi based. These solid wire sticks are available in various diameters and lengths, which provide increased ease of use. Using the same base alloy for rework and touch up creates a consistent alloy system, thus maintaining the original system reliability. Using SnBi rework alloy is superior to using alternate alloys since no additional reliability study is needed to ensure acceptable performance.

TECHNICAL DATA

Alloy (1)	Sn	Bi	Pb	Melt T	Density g/cm³			
Lead free								
Sn42Bi58	42.00%	58.00%	(1)	138 °C	8.76			

(1) Less than the maximum allowable according to RoHS specification





RECYCLING SERVICES

We provide safe and efficient recycling services to help companies meet their environmental and legislative requirements and at the same time, maximize the value of their waste streams.

Our service collects solder dross, solder scrap, and various forms of solder paste waste. Please contact your local sales representative for recycling capabilities in your area or link here.



SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available at MacdermidAlpha.com/assembly-solutions/knowledge-base.**

STORAGE

When properly stored (ambient temperatures and dry) a shelf life of 1 year is guaranteed.

CONTACT INFORMATION

To confirm this document is the most recent version, please contact Assembly@MacDermidAlpha.com

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE . Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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