

ALPHA® Sn10Pb90

High Temperature Leaded Alloy

DESCRIPTION

ALPHA Sn10Pb90 is manufactured using high purity raw materials and the alloy is conditioned using Alpha's Vaculoy viscosity and dross lowering treatment. This results in a pure low dross high fluidity solder alloy, which is free of cast in impurities and included oxides.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

TECHNICAL DATA

Material Property	Units	ALPHA Sn10Pb90
Solidus	Celsius	268
Liquidus	Celsius	302
Density	g/cc	10.8
Tensile Strength, Ultimate	MPa	30
Tensile Strength, Yield	MPa	25
@Strain 0.200%		
Elongation at Break (in 50mm)	%	10%
Electrical Resistivity	Ω.m	0.0021
CTE, linear	μm/m - °C	27.9
Thermal Conductivity	W/m-K	35.8



SOLDER IMPURITIES SPECIFICATION

Element	Specification %	
Sn	10.00 ± 1.00	
Pb	Balance	
Cu	0.08 max	
As	0.02 max	
Bi	0.25 max	
Zn	0.005 max	
Fe	0.02 max	
Ag	0.015 max	
Sb	0.50 max	
Cd	0.001 max	
Al	0.005 max	

AVAILABILITY

ALPHA Sn10Pb90 is available in 50LB/Box bar.



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.**

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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