

# DOWN-HOLE ELECTRONICS SOLDER ALLOYS



Down-hole electronics, such as oil and gas exploration, requires solder alloys with the durability to withstand the extreme thermal and mechanical stresses of these applications. AIM offers a broad range of solders to fulfill your most challenging component packaging applications.

## • ALLOYS

- Gold/Tin, Tin/Lead/Antimony, Tin/Silver, Tin/Antimony, CASTIN, Tin/Silver, Tin/Lead, Tin/Lead/Silver and other alloys upon request

## • SOLDER FORMS

- Paste, Wire, Preforms and Bar

## • COMPATIBLE FLUXES

- No-Clean, Water Soluble, Rosin



The chart below lists a selection of AIM's most commonly specified solder alloys used in down-hole applications.

ALLOY COMPOSITION	TOOL TYPE			MELTING RANGE (°C)	TENSILE STRENGTH (ksi)	CREEP RESISTANCE
	150	175	200			
Au80/Sn20			X	280	40.00	Excellent
Sn5/Pb85/Sb10		X		245-255	5.57	Excellent
Sn95/Ag5		X		221-240	8.09	High
Sn95/Sb5		X		232-240	8.15	High
CASTIN		X		217	5.73	High
Sn63/Pb37	X			183	4.92	Moderate
Sn5/Pb93.5/Ag1.5			X	309	6.75	High

**AIM has the down-hole electronics solder alloys and technical support necessary to fulfill your most stringent requirements.**

For additional information please contact AIM at  
 + 401 463-5605  
 + 401 463-0203 Fax  
 or visit us on the web at  
[www.aimsolder.com](http://www.aimsolder.com)