

Cost MP0602

High Temperature Solders **Case Studies**

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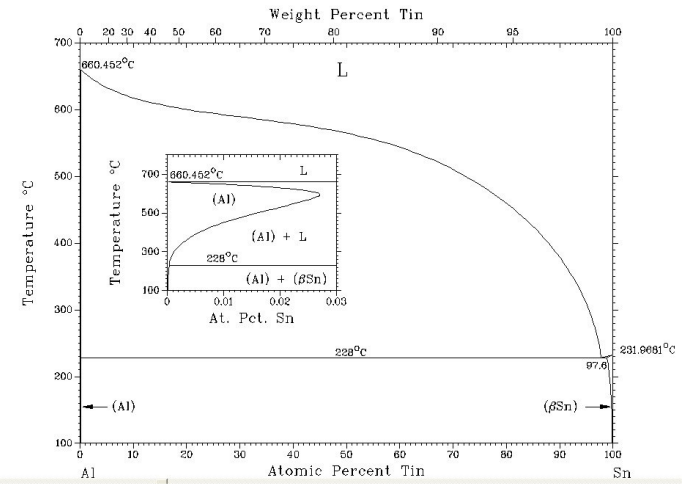
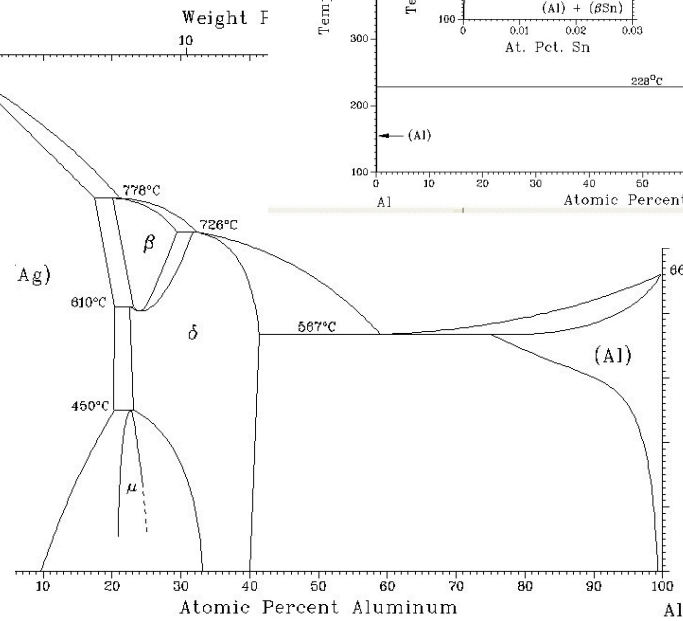
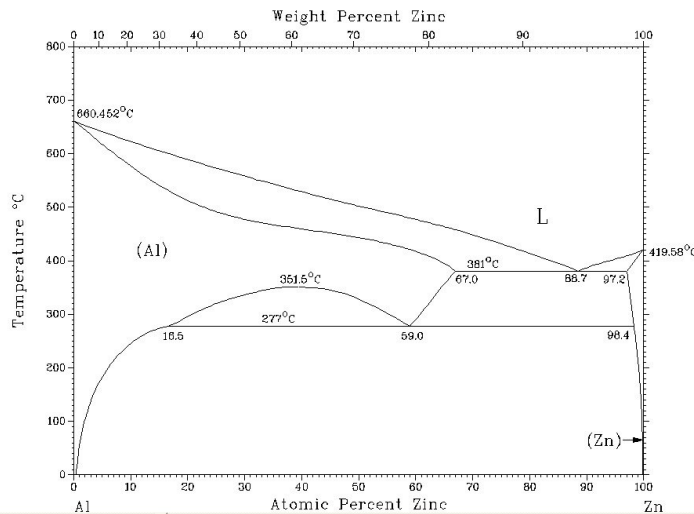


Introduction

Solidus °C:	Liquidus °C:		Element #1	Wt% #1	Element #2	Wt% #2
278	278	E	Au	80	Sn	20
280	303		Au	78	Sn	22
285	310		Pb	93	Sn	7
304	304	E	Pb	97.5	Ag	2.5
305	314		Pb	95	Sn	5
310	320		Pb	97	Sn	3
317	322		Pb	98	Sn	2
321	325		Pb	99	Sn	1



Phase Diagrams



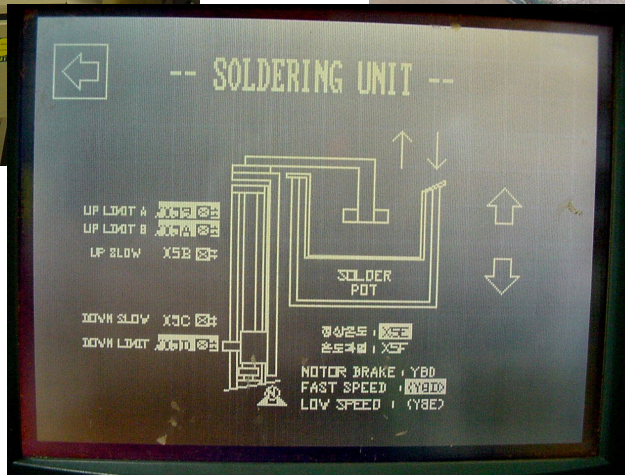
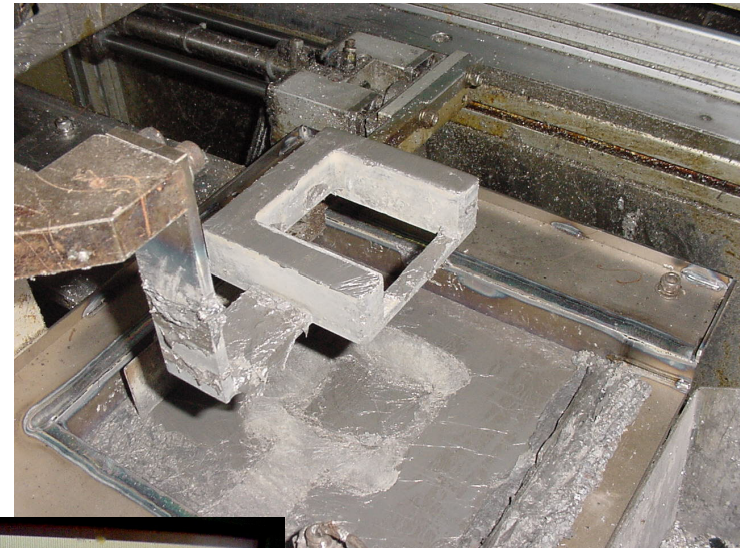
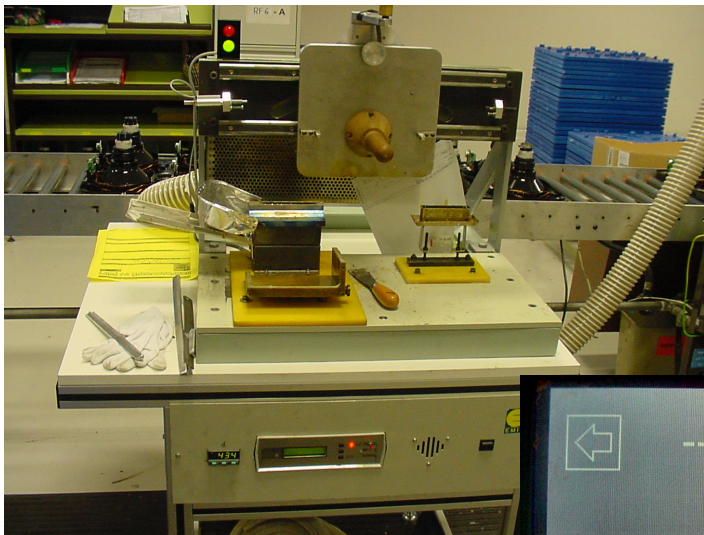


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Fluxless - Lead-Free

Cost MP0602

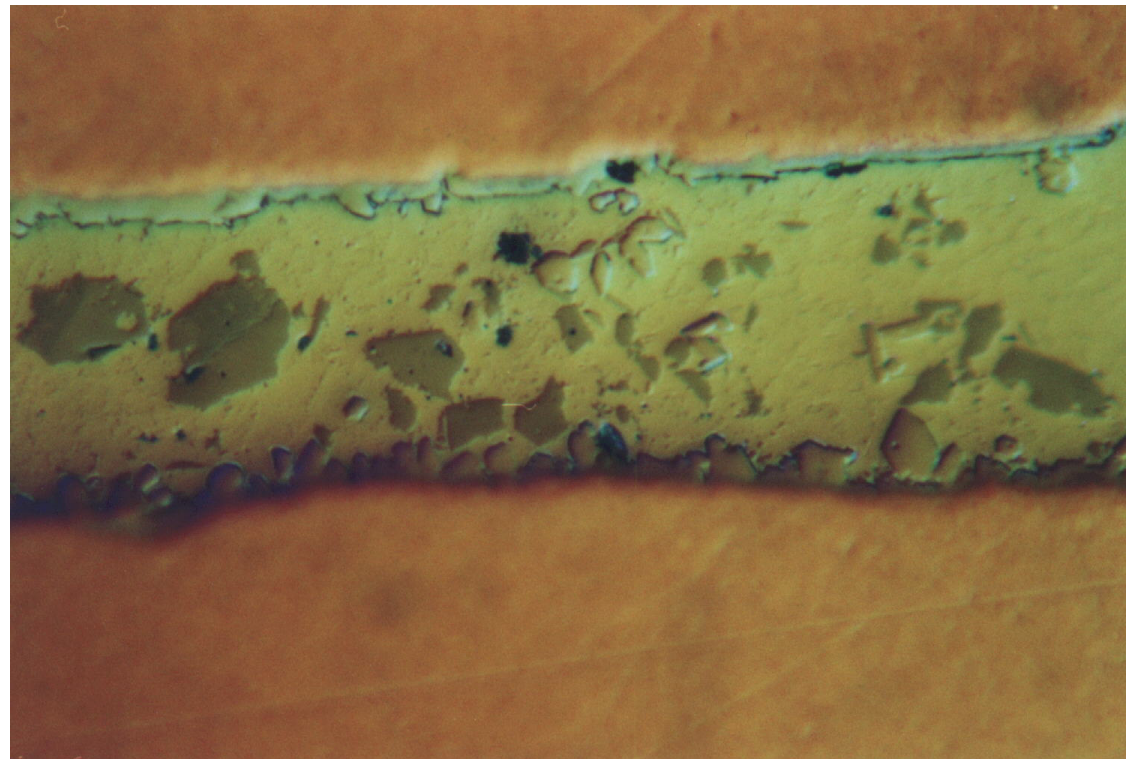
Innovative solder solutions

Soldering



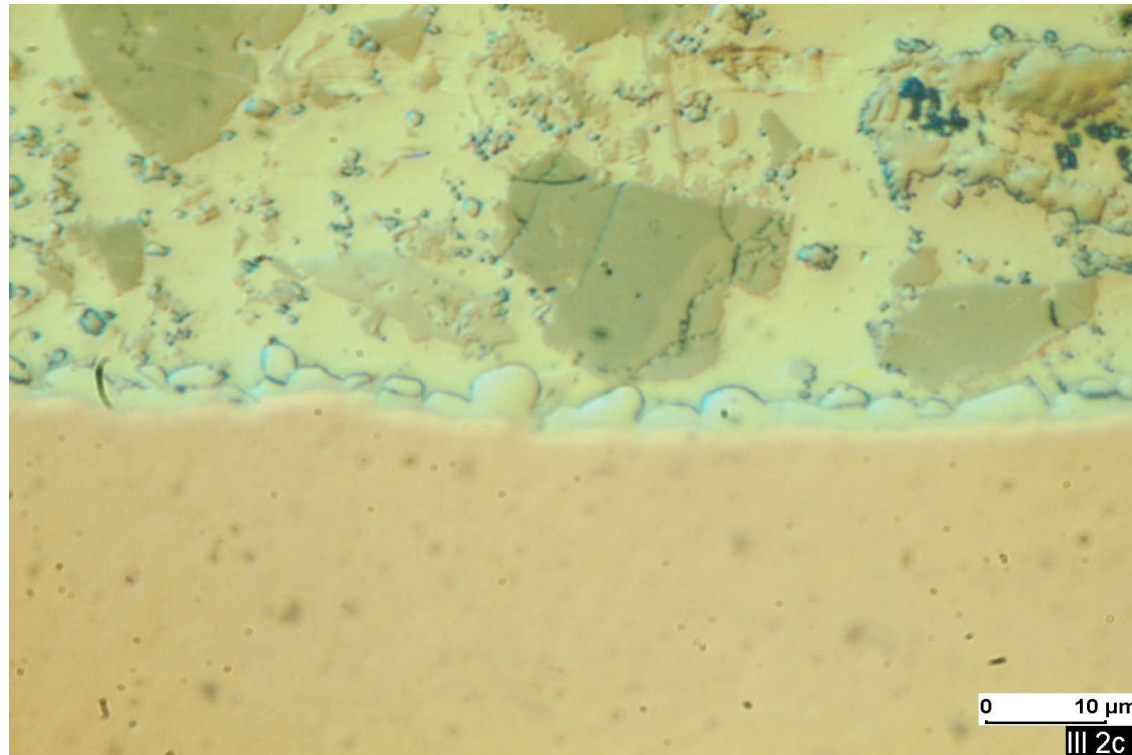


Cu-Cu (Sn-Al-Zn)



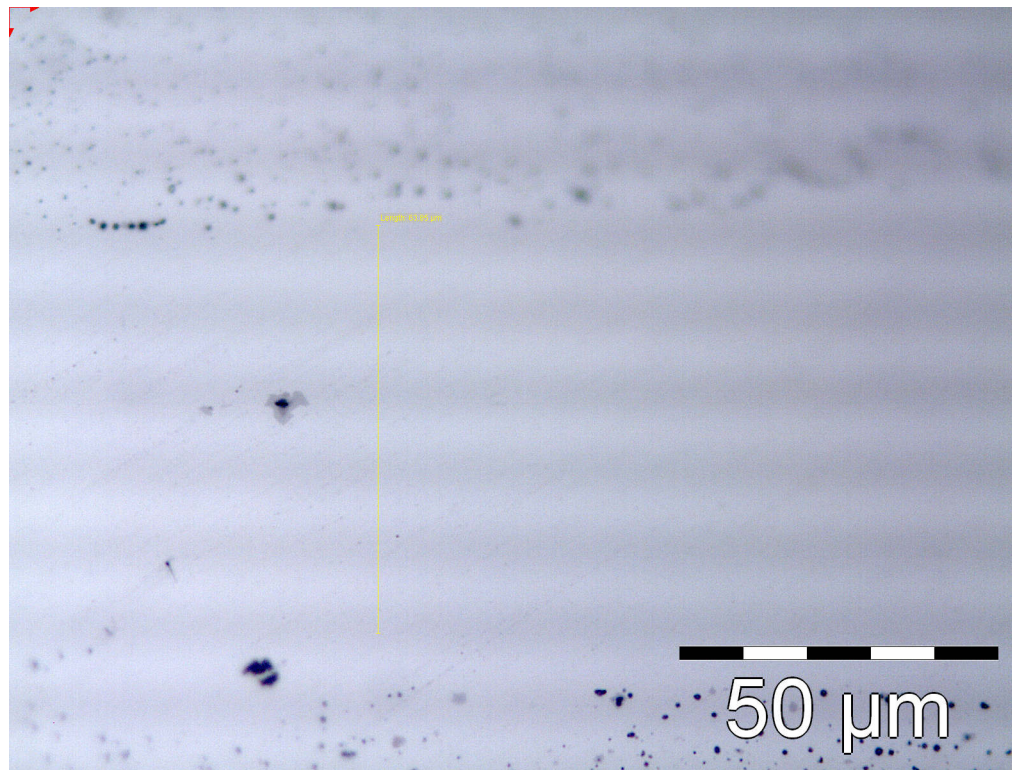


Cu-Solder (Sn-Al-Zn)



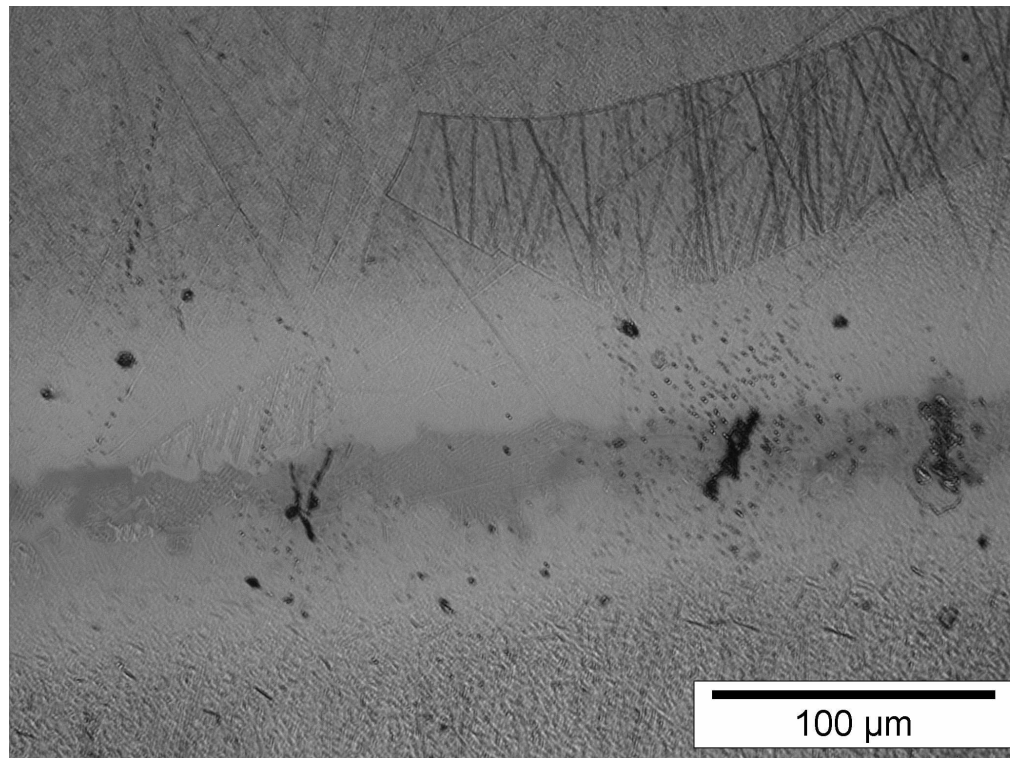


Invar (Ni alloys)



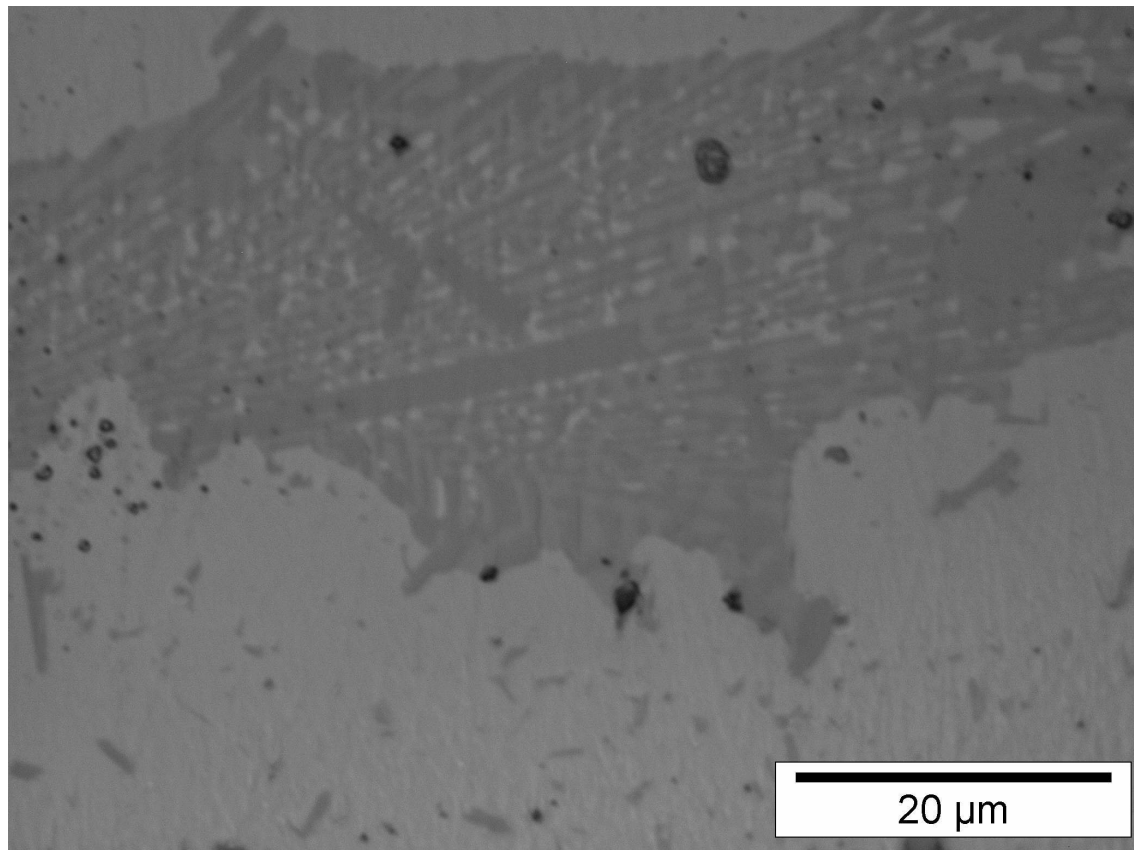


Cu-Cu (Ni alloys)



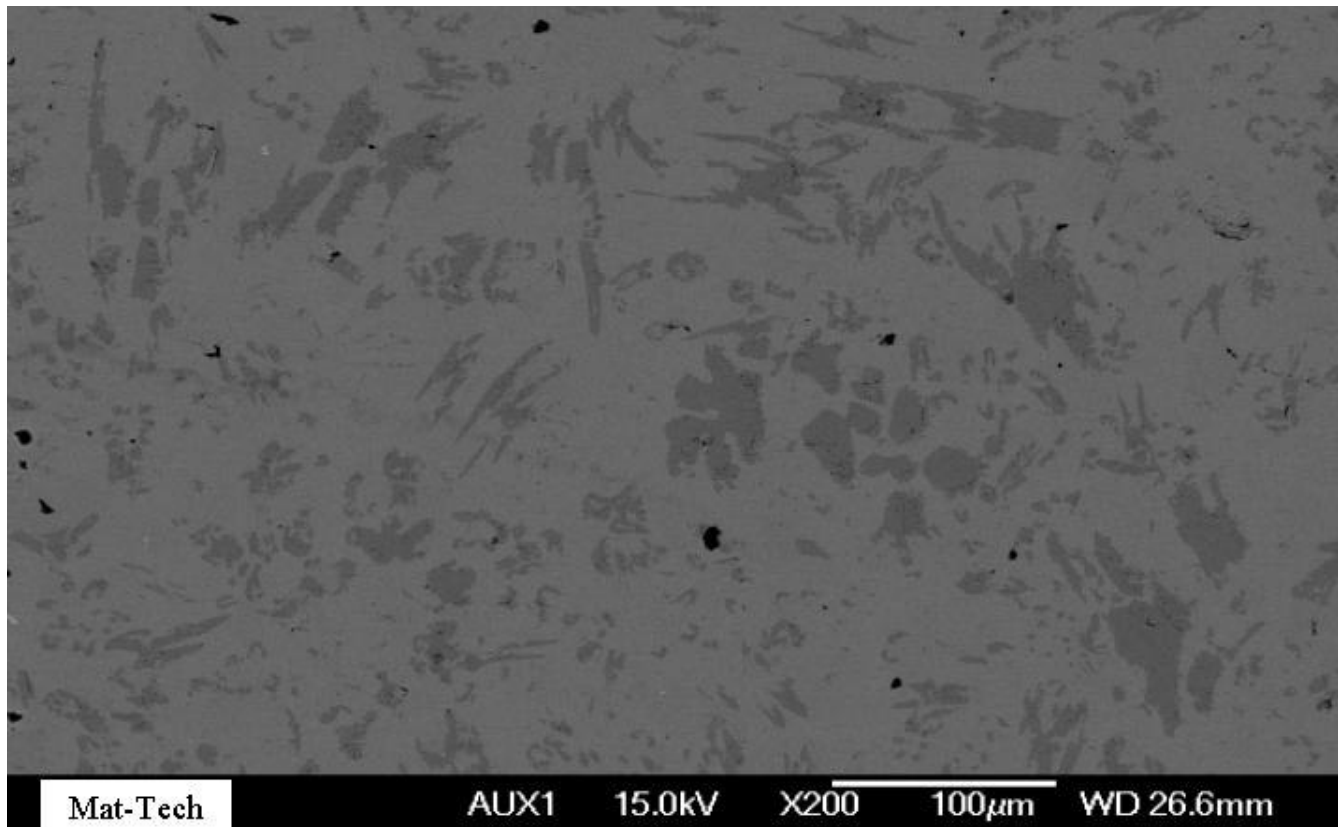


Cu-Cu (Ni alloys)



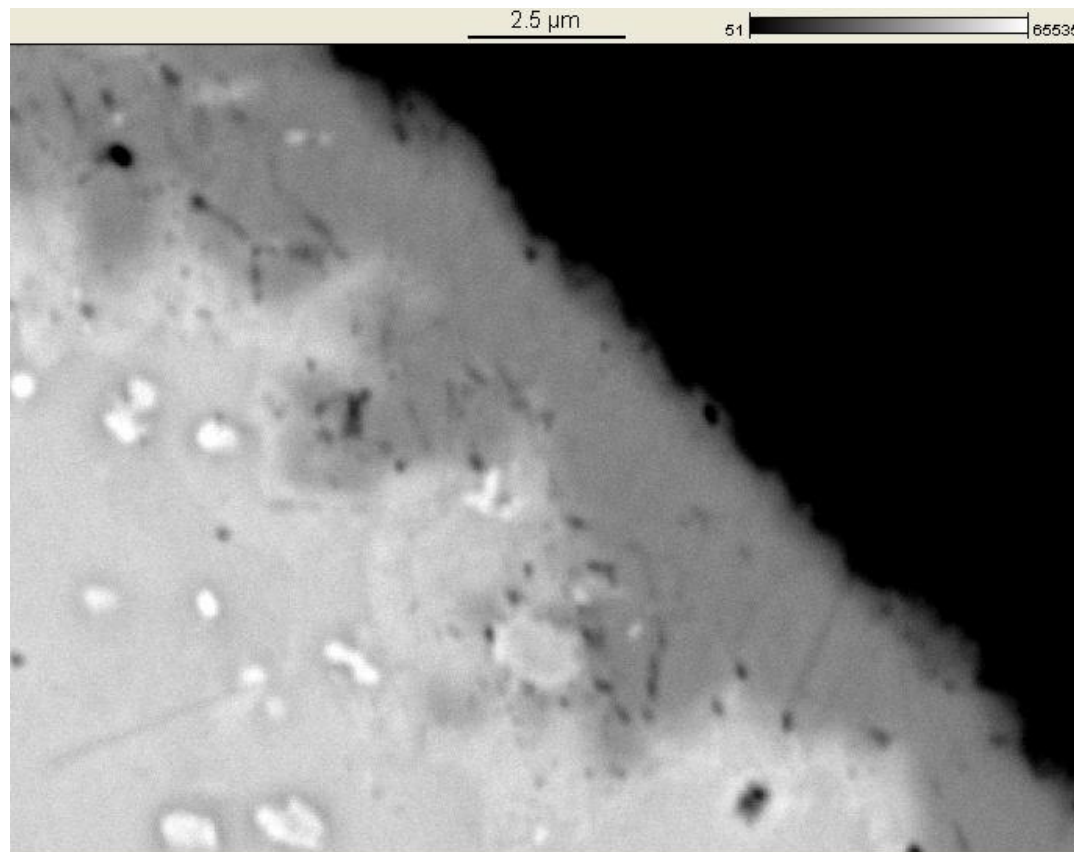


Sn-Cu-X alloys



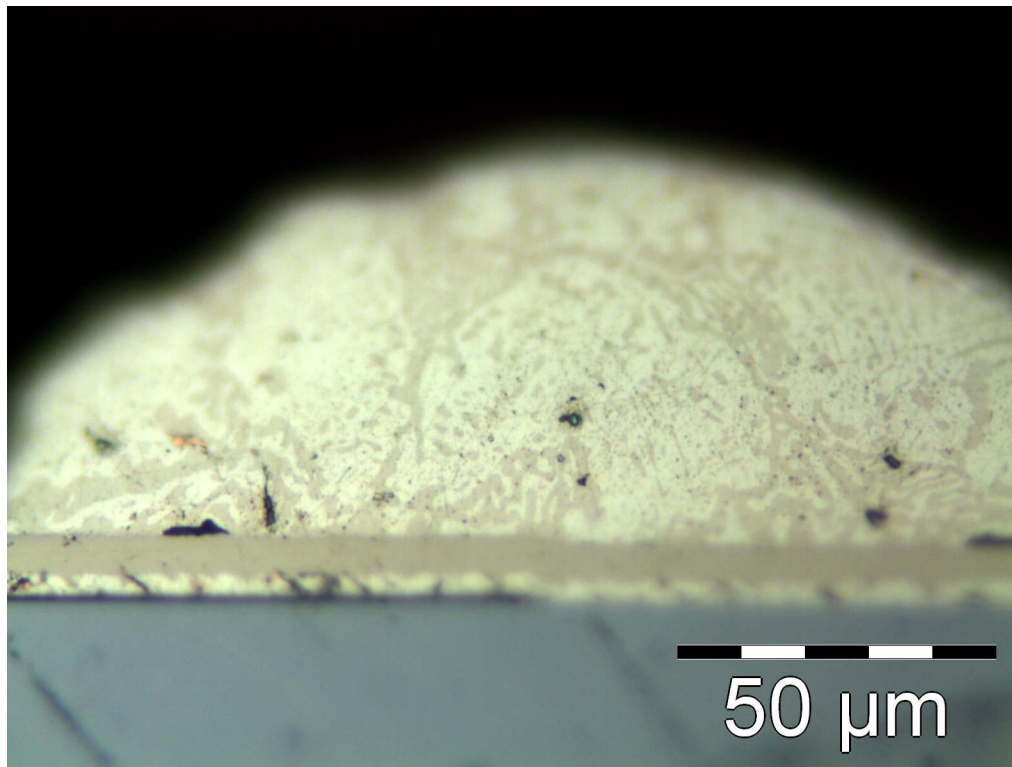


Intermetallics (SEM)



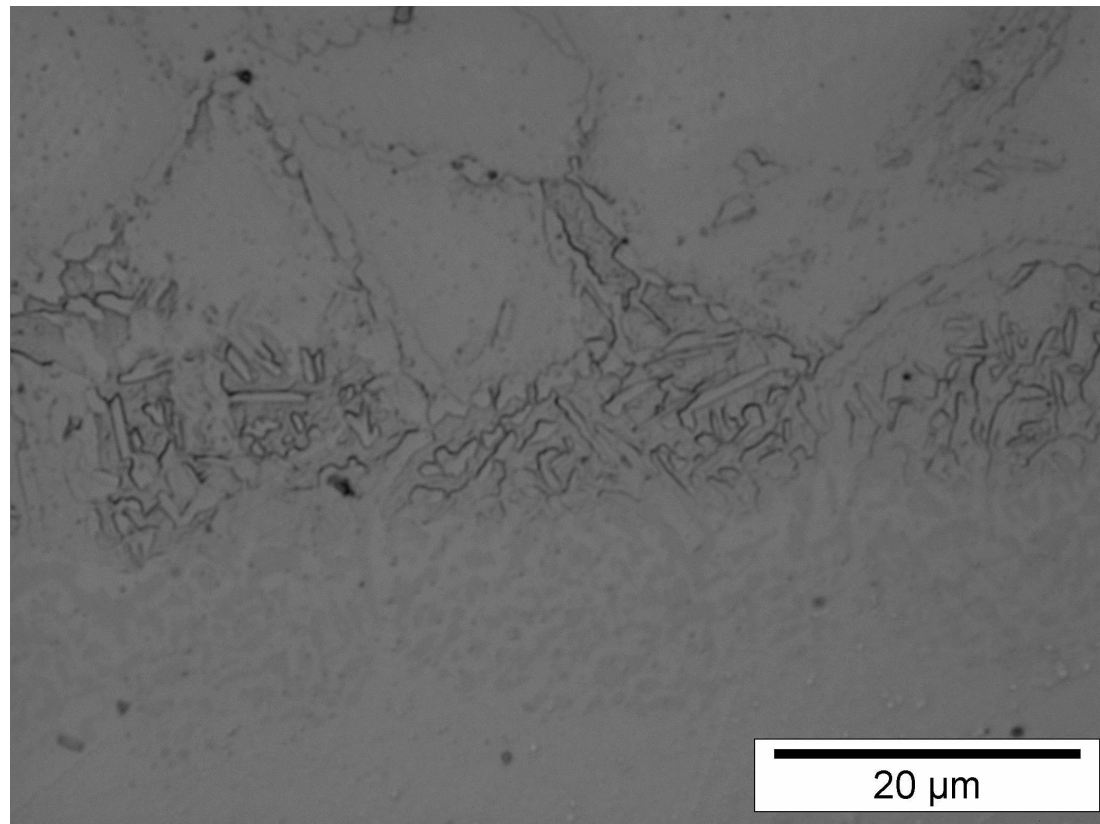


Intermetallics (Al-alloys)

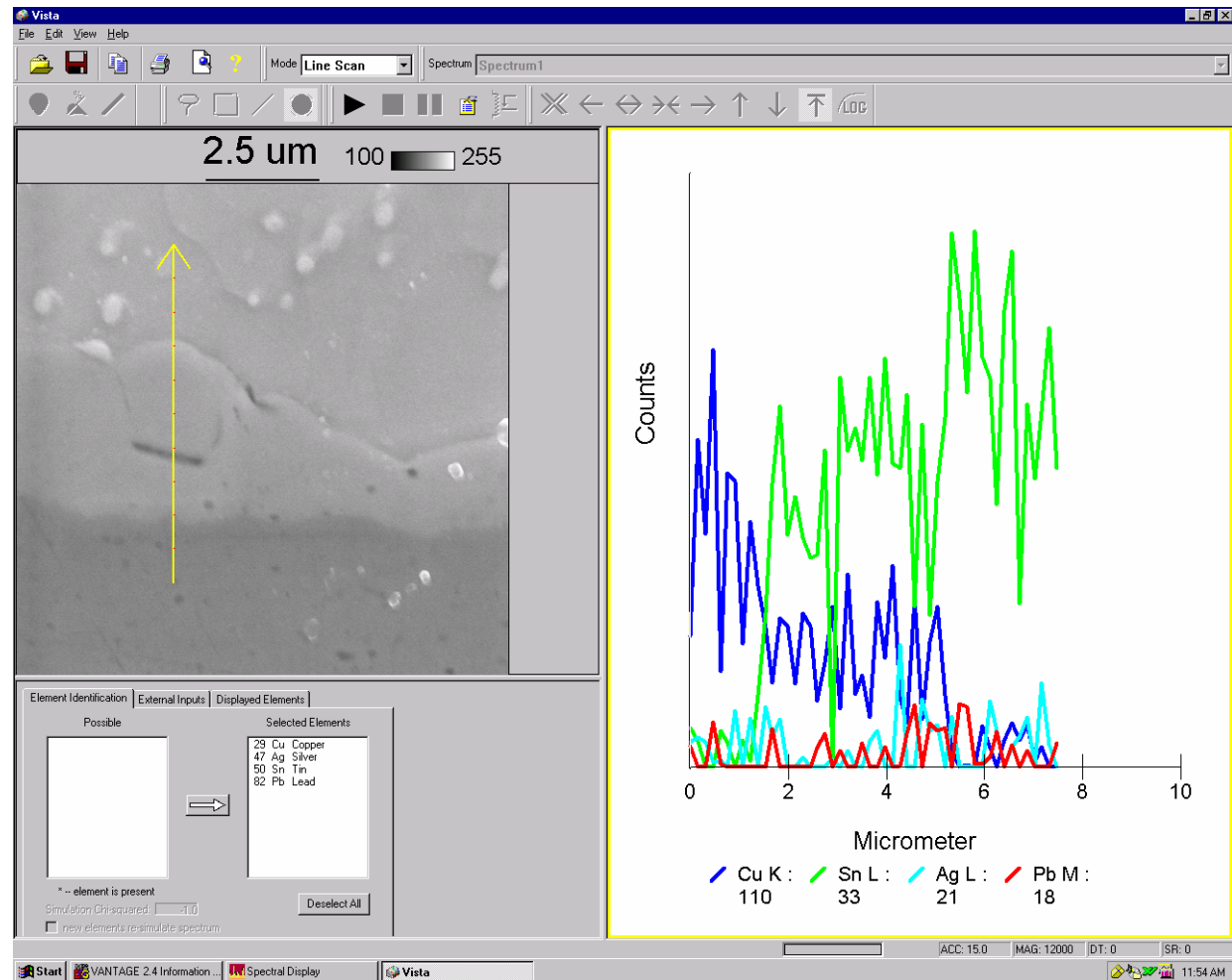




Cu-Solder (Ni alloys)



SEM



MT-20 to MT-23