

technical information

The table of material compatibility for "Ultrasonic metal bonding"

	Copper alloys								Alumi. alloys			Nickel alloys		Silver alloys		Iron alloys		Others														
	Copper (Pure)	Brass	Brass Leaded	Bronze	Bronze Leaded	Be-Cu	Cu-Ni	Ni-Silver	#1000, #2000	#3000, #6000	#5000, #7000	Nickel (Pure)	Monel (Ni-Cu)	Ni-Fe(invarkovar)	Inconel	Silver (Pure)	Sterling Silver	Silver-Cd-Ox	Iron (Soft)	Steel	Cast Iron	S.S. (#300)	S.S. (#400)	Tantalum	Lithium	Lead	Gold	Titanium	Cobalt alloys	Zinc alloys	Tungsten alloys	Platinum alloys
Copper alloys	●	●		●		●	●	●	●	●	●			●		●		●	●	●	●	●	●	●	●			●	●	●	●	●
	Brass	●		●		●	●	●	●	●	●	▲		●		●		●	●	●	●	●	●	●	●			▲	▲	▲	▲	●
	Brass Leaded								▲	▲	▲			●		●		●	●	●	●	●	●	●	●							
	Bronze			●		●	●	●	●	●	●	▲		●		●		●	●	●	●	●	●	●	●			▲	▲	▲	▲	●
	Bronze Leaded								▲	▲	▲			●		●		●	●	●	●	●	●	●	●							
	Be-Cu					●	●	●	●	●	●	●	●	●		●		●	●	●	●	●	●	●	●			▲	●	▲	▲	▲
	Cu-Ni						●	●	●	●	●	▲		●		●		●	●	●	●	●	●	●	●			▲	▲	▲	▲	▲
	Ni-Silver							●				▲		●		●		●	●	●	●	●	●	●	●			▲	▲	▲	▲	▲
Aluminum alloys									●		▲	●	▲		●		●		●	▲	▲	▲	●	●	●	●		●	●	▲		
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Nickel alloys												●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
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Silver alloys													●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
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- Good bonding
- △ Fair
- Unknown or Poor

This is the reference data.

The bonding strength depends on the actual material and other factors.

ULTEX
Ultrasonic Laboratory