

Hirsch Metals Corporation 2200 NW Corporate Blvd. Suite 303 Boca Raton, FL 33431

Tel: 800-521-0352 Tel: 561-994-6440 FAX: 561-994-6880

SOLDER ALLOYS Selection Chart



Typical Uses	Composition % Weight Tin/Lead	Temperature ⁰ F Solidus Pasty Liquidus	Tensil Shear Density #/ in ³
Non-critical sealing and filling, auto body repair and filler.	2/98	601 611 10	3500 3100 .40
Coating steel and copper. Joining parts subject to vibration in cryogenic service.	5/95	586 594 8	4000 2100 .397
Coating steel or copper for durable, corrosion resistance against mild acids, and seawater.	6/94	570 590 20	4800 3000 .390
Coating steel for corrosion resistance where there is subsequent soldering of fittings.	7/93	550 587 37	4200 3000 .389
Fabricating auto radiators & gas tanks, coating and bonding metals subjected to moderate service temperatures. Auto body dent filling.	10/90 12/88	514 570 56 490 565 75	4400 3000 .389 4500 2600 .380
Coating tubes and sheets, automatic radiator assembly, body filling.	15/85	440 550 110	4600 2700 .380
Coating radiator tubes for joining fins.	20/80	361 531 170	4800 3000 .363
Soldering auto radiators, machine, dip and hand soldering for plumbing fixtures and fittings, superior filler for auto body repairs.	25/75 30/70	361 511 150 361 491 130	4900 3500 .369 5000 4000 .350
A lower cost alternative alloy than 40/60 for wiping and sweating joints.	35/65	361 477 116	5200 4300 .343
Joining cables, wiping and joining lead pipes, electrical and radiator repairs.	40/60	361 460 99	4900 4400 .328

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11.520 8900 .339

SOLDER ALLOYS Selection Chart (cont'd)

Typical Uses	Composition % Weight Tin/Lead	Temperature ⁰F Solidus Pasty Liquidus	Tensil Shear Density #/ in ³
Soldering radiator cores, roof seams, and decorative joints.	45/55	361 441 80	5700 4900 .321
Wiping and assembly of plumbing joints. (Not for drinking supplies)	50/50	361 421 60	5500 4700 .321
Wave and hand soldering of electronic assemblies, a lower cost alternative to 63/37.	60/40	361 374 13	7600 5600 .306
Eutectic alloy, the first choice for general purpose wave or hand soldering of electronic assemblies.	63/37	361 361 0	7500 6200 .304
Instrument and electronic work for reduced leaching of silver on coated surfaces.	62/36Sb/2 Ag	354 354 0	9600 6600 .307
High creep strength solder for both elevated and cryogenic service temperatures.	1/97.5Sb/1.5 Ag	588 588 0	4400 3400 .408
Lead-Free alloy with high strength and creep resistance. Will withstand service temperatures to 212F. Stained glass, plumbing, radiator repair. Suitable for potable water supply.	95/5 Sb	452 464 12	5900 6000 .262
Lead-Free for potable water supplies, radiator	97/3 Cu	449 630 181	6420 5680 .212

442 597 155

This is a listing of some of our most popular alloys. Call us for more information on specific requirements. We will always develop a special alloy for a particular purpose. 1-800-521-0352

97/2.75Cu/.25 Ag

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colors.

repairs and for stained glass windows.

Lead-Free silver bearing solder. For stained glass windows, radiator and plumbing. High hardness, creep resistance. Wide range of patina and

Lead-free for potable water supplies. Excellent High strength silver solder for radiator repair.