



Solder Preforms | Engineered Solder Materials

Solder Preform Technical Data Sheet



Solder Preforms are engineered shapes of solder. Array Solders offers preforms in numerous alloys with varying melting points.

Advantages of Solder Preforms

- Delivers the exact amount of required solder
- Are available flux coated or cored, eliminating an additional process saving time & money
- Do not typically leave residue eliminating an additional process

Applications Where Preforms are Used

- PCB Assemblies
- Thermal Fuses
- Die-Attach
- Connectors
- Cable Harness Manufacturing
- Sealing & Thermal Interfaces
- Hermetic Packaging
- Vacuum Gauges
- Industrial

Types of Preforms

Washers



Outside Diameter x Inside Diameter x Thickness

Squares



Length x Width x Thickness

Discs



Diameter x Thickness



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Rectangles



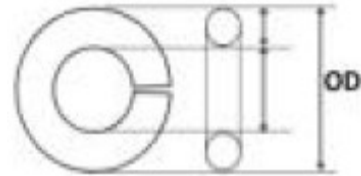
Length x Width x Thickness

Sleeves



Outside Diameter x Inside Diameter x Thickness

Rings



Inside Diameter x Diameter

Customized preforms are also available. Visit arraysolders.com for more information.

Commonly Available Alloys

Alloy	Solidus		Liquidus		Density g/cc	Tensile Strength English	Notes
	C°	F°	C°	F°			
48sn/52in	118	244	118	244	7.3	3200 psi	
97in/3ag	143	290	143	290	7.38	800 psi	
100in	157	315	157	315	7.31	575 psi	
30pb/70in	174	347	165	329	8.19	3450 psi	
62sn/36pb/2ag	179	354	179	354	8.41	6380 psi	
50pb/50in	209	410	184	363	8.86	4670 psi	
60in/40pb	185	358	173	343	8.52	4510 psi	
70sn/30pb	186	367	183	361	8.32	7800 psi	
63sn/37pb	183	361	183	361	8/34	7500 psi	
60sn/40pb	188	376	183	361	8.5	7610 psi	
50sn/50pb	212	414	183	361	8.87	6000 psi	
96.5sn/3.5ag	221	430	221	430	7.36	5620 psi	
60pb/40in	225	437	205	401	9.3	5000 psi	
100sn	232	454	232	450	7.28	1900 psi	
60pb/40sn	238	460	183	361	9.28	5400 psi	
95sn/5sb	240	464	232	450	7.25	5460 psi	
80au/20sn	280	536	280	536	14.51	40000 psi	
10sn/88pb/2ag	290	570	268	513	10.75	3260 psi	
95pb/5sb	295	563	252	486	10.96	4200 psi	



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Alloy	Solidus		Liquidus		Density g/cc	Tensile Strength English	Notes
	C°	F°	C°	F°			
97.5pb/2.5ag	303	577	303	577	11.33	5900 psi	
97.5pb/1.5ag/1sn	309	588	309	588	11.28	5940 psi	
95pb/5sn	314	597	310	590	10.8	400 psi	
100pb	327	621	327	621	11.35	2750 psi	
88au/12ge	361	682	361	682	14.67	26900 psi	
96.5sn/3ag/.5cu	217	423	221	430	7.39	4312 psi	Sac305
58sn/42in	145	493	118	244	7.3	5900 psi	
5ag/15pb/80in	149	300	149	288	7.85	2550 psi	
80sn/20pb	199	390	183	361	7.85	5800 psi	
55sn/45pb	200	392	183	361	8.68	6800 psi	
85sn/15pb	205	401	183	361	7.7	5300 psi	
90sn/10pb	213	415	183	361	7.55	3300 psi	

Color Codes:

Blue Used in electronics applications

Green Lead free

Gray Low temperature alloy

Brown Die attach applications

Purple Thermal interface applications

Please note that other alloys are available. For further information, feel free to contact us.



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