

PHOSPHORUS COPPER ALLOYS SELECTION CHART

ALLOY	QQ-B-654A	AWS A5.8	Ag %	Cu %	P %	OTHER	SOLIDUS		LIQUIDUS		FLUIDITY RATING	TYPICAL APPLICATION
							°F	°C	°F	°C		
Blockade®		BCuP-9	0	BAL.	6.5	(Si) .01-.40	1178	637	1247	674	N/A	*Copper or brass. Lower brazing temperature, excellent replacement for many silver bearing BCuP alloys. Can also be used to replace some BAg alloys.
Flash® (LCuP-8)			0	91.9	8.1		1310	710	1340	727	8	For copper. Very fluid for close joint tolerances .002-.004" (.050-.102mm) Excellent for speeding up the brazing of Return Bends.
Stay-Silv® OHHP			0	92.49	7.51		1310	710	1431	769	6.5	For copper. Most popular for brazing Copper Return Bends in automated brazing.
Harris OHP (LCuP-7)		BCuP-2	0	92.6	7.4		1310	710	1445	785	6	For copper. Fluid alloy, requires good fit-up, .002-.006" (.050-.178mm) clearance.
Harris O		BCuP-2	0	92.9	7.1		1310	710	1475	802	5	For copper. Requires medium fit-up, .002-.007" (.050-.178mm) clearance.
Harris LCuP-6			0	92.5	6.5		1310	710	1549	843	3	For copper. Good alloy where joint tolerances cannot be maintained.
Stay-Silv® 2HP			2	90.6	7.4		1190	643	1405	763	5	For copper. More fluid, clearance .002-.005" (.050-.127mm)
Stay-Silv® 2		BCuP-6	2	91	7		1190	643	1450	788	4	Broadens melting range of 0. For copper or brass. Clearance range .002-.005" (.050-.127mm)
Stay-Silv® 2LP			2	91.4	6.6		1190	643	1500	816	3	Sluggish flow, used for copper joints with wider clearance .003-.006" (.076-.152mm)
Stay-Silv® 5HP			5	88.6	6.4		1190	643	1445	785	4	For copper or brass. Slightly more fluid, use with clearance of .003-.005" (.076-.128mm)
Stay-Silv® 5		BCuP-3	5	89	6		1190	643	1500	816	3	For copper or brass. Used to bridge gaps where close fit-up can't be maintained.
Stay-Silv® 5LP			5	89.3	5.7		1190	643	1535	835	2	For copper. Used where fit-up can't be controlled, clearance .003-.006" (.076-.152mm)
Dynaflow®			6	87.9	6.1		1190	643	1465	796	3	Premium alloy for copper or brass. Excellent strength and ductility, use as replacement for 15.
Stay-Silv® 6HP		BCuP-4	6	86.8	7.2		1190	643	1335	724	7	Copper or brass. Fluid alloy for controlled clearance .001-.004" (.025-.102mm) Good for automated brazing.
Stay-Silv® 6			6	87.5	6.5		1190	643	1425	774	5	Copper or brass. Medium range alloy, applications with clearance of .002-.005" (.050-.127mm)
Stay-Silv® 6LP			6	87.8	6.2		1190	643	1455	791	4	Copper or brass. Medium range alloy, applications with clearance of .002-.005" (.050-.127mm)
Stay-Silv® 15	Grade III	BCuP-5	15	80	5		1190	643	1480	804	3	Copper or brass. Useful for wide clearance .002-.006" (.050-.178mm) Good ductility.
Stay-Silv® 18			18	75.4	6.6		1190	643	1220	660	7	Copper to copper or copper to brass. Higher Phos copper alloy which creates a low temperature, highly fluid alloy. Suited for automated brazing operation such as those with rings.

* ISO, EN, DIN, and other alloys available upon request.