



Materion's patented SilSeal® materials are superior silver-based alloys available in a variety of forms to meet your requirements for consistent performance. The following chart offers comparative technical information on our brazing materials.

SILSEAL® Materials

SilSeal®	Nominal Composition %	Liquidus		Solidus		Compare To*	AWS/AMS Numbers
		C	F	C	F		
SilSeal® 250	Ag 25, Cu 40, Zn 33, Sn 2	780	1435	690	1270	Safety-Silv 25, Braze 255, Silvaloy A-25T	AWS Bag - 37
SilSeal® 251	Ag 25, Cu 52.2, Zn 22.5	855	1575	675	1250	Safety-Silv 25A, Braze 250, Silvaloy A-25	
SilSeal® 252	Ag 25, Cu 38, Zn 33, Ni 2, Mn 2	800	1475	705	1305	Braze 252	
SilSeal® 300	Ag 30, Cu 38, Zn 32	765	1410	675	1250	Safety-Silv 30, Braze 300, Silvaloy A-35	AMS Bag - 20
SilSeal® 350	Ag 35, Cu 32, Zn 33	755	1390	685	1265	Safety-Silv 35, Braze 351, Silvaloy A-35	AWS Bag - 35
SilSeal® 380	Ag 38, Cu 32, Zn 28, Sn 2	720	1330	650	1200	Safety-Silv 38T, Braze 380, Silvaloy A-38T	AMS Bag - 34
SilSeal® 400	Ag 40, Cu 30, Zn 30	725	1340	675	1245	Safety-Silv 40, Braze 401	
SilSeal® 401	Ag 40, Cu 30, Zn 28, Sn 2	710	1310	650	1200	Safety-Silv 40T, Braze 402, Silvaloy A-40T	AWS Bag - 28
SilSeal® 402	Ag 40, Cu 30, Zn 28, Ni 2	780	1435	660	1220	Safety-Silv 40Ni25, Braze 403, Silvaloy A-40N2	AWS Bag - 4
SilSeal® 403	Ag 40, Cu 30, Zn 25, Ni 5	860	1580	660	1220	Safety-Silv 40Ni5, Braze 404, Silvaloy A-40N5	
SilSeal® 450	Ag 45, Cu 30, Zn 25	745	1370	665	1225	Safety-Silv 45, Braze 450, Silvaloy A-45	AWS Bag - 5
SilSeal® 490	Ag 49, Cu 16, Zn 23, Ni 4.5, Mn 7.5	700	1290	680	1260	Braze 495, Silvaloy A-49NM	AWS Bag - 22
SilSeal® 500	Ag 50, Cu 34, Zn 16	775	1425	675	1250	Safety-Silv 50, Braze 501, Silvaloy A-50	AWS Bag - 6
SilSeal® 501	Ag 50, Cu 20, Zn 28, Ni 2	705	1305	660	1220	Safety-Silv 50N, Braze 505, Silvaloy A-50N	AWS Bag - 24
SilSeal® 560	Ag 56, Cu 22, Zn 17, Sn 5	650	1205	620	1145	Safety-Silv 65, Braze 560, Silvaloy A-56T	AWS Bag - 7
SilSeal® 600	Ag 60, Cu 25, Zn 15	720	1325	675	1245	Safety-Silv 60, Braze 600, Sil	
SilSeal® 650	Ag 65, Cu 20, Zn 15	720	1325	670	1240	Braze 650, Silvaloy A-65	AWS Bag - 9
SilSeal® 700	Ag 70, Cu 20, Zn 10	740	1360	690	1275	Braze 700, Silvaloy A-70	AWS Bag - 10
SilSeal® 720	Ag 72, Cu 28	780	1435	780	1435	Safety-Silv 72, Braze 720, Silvaloy B-72	AWS Bag - 8
SilSeal® 750	Ag 75, Cu 22, Zn 3	790	1450	740	1365	Braze 750, Silvaloy A-75	

* The competing products listed by the trademarks of their supplier are for industry reference and comparison purposes only.



ADVANCED MATERIALS GROUP
2978 Main Street
Buffalo, NY 14214 USA
Phone: +1 800.327.1355
advancedmaterials@materion.com
www.materion.com/advancedmaterials

Europe: +44 1 488.686056
Asia: +65 6559.4450

MATERION CORPORATION
www.materion.com

MATERION ADVANCE MATERIALS GROUP is a global advanced materials company, dedicated to providing solutions that enable our customers' technologies and drive their growth. Our products include precious and non-precious specialty metals, precision optical filters, inorganic chemicals and powders, specialty coatings, specialty-engineered beryllium alloys, beryllium and beryllium composites, and engineered clad and plated metal systems. The Materion business is structured to enhance our ability to provide customers with innovative, best total-cost solutions.