



DC Cast Sheet

Alcoa Products for Brazed Applications

Alcoa produces the entire spectrum of sheet components for nearly every brazed aluminum heat exchanger or assembly – from light-gauge fin stock, to heater core and radiator tubes, to heavy-gauge headers and reinforcements. Alcoa alloys are used for vacuum brazing applications and for controlled atmosphere brazing applications utilizing potassium aluminofluorate fluxes. Alcoa brazing materials are available in O-, H1x-, and H2x- tempers, in thicknesses from 0.08 mm to 3.5 mm or more, and clad on one or two sides with common nominal cladding ratios from 5 to 20 percent of total material thickness on each clad surface.*

Core Alloys

	Si	Fe	Cu	Mn	Mg	Zn	Ti	Other
AMP 0301**	0.20	0.35	0.45-0.75	1.6-1.9	0.05-0.20	0.10	0.05	-
AMP 0333**	0.25	0.6	0.20-0.40	0.8-1.3	0.10	0.05	0.25	0.25 Zr
AMP 0336**	0.25	0.40	0.50-0.6	1.0-1.3	0.05	0.10	0.10-0.20	-
AMP 0359**	0.20	0.35	0.40-0.6	1.0-1.3	0.20-0.30	0.05	0.10-0.25	-
AMP 0370	0.6-0.84	0.4-0.6	0.4-0.64	1.1-1.4	0.05	0.05	0.10-0.20	
AMP 0373	0.6-0.84	0.4-0.6	0.4-0.64	1.1-1.4	0.3-0.4	-	0.10-0.20	
AMP 0390	0.6	0.7	0.05-0.20	1.0-1.5	-	1.3-1.7	-	-
AMP 0393	0.65-1.1	0.7	0.05	1.3-1.9	0.05	1.2-1.9	0.05	-
AA 3003	0.6	0.7	0.05-0.20	1.0-1.5	-	0.10	-	-
AA 3005	0.6	0.7	0.30	1.0-1.5	0.20-0.6	0.25	0.10	0.10 Cr
AA 3105	0.6	0.7	0.30	0.30-0.8	0.20-0.8	0.40	0.10	0.20 Cr

AMP = Alcoa Mill Products proprietary alloys. AA = Complies with Aluminum Association registered limits. Alloys marked with ** are corrosion resistant, long life alloys. Publication limits only. Limits shown are maxima unless expressed as a range.

Clad Liner Alloys

	Si	Fe	Cu	Mn	Mg	Zn	Ti	Other
AMP 0043	6.8-8.2	0.8	0.25	0.10	0.05	0.8-1.2	-	
AMP 0405	9.0-11.0	0.8	0.30	0.05	0.05	0.8-1.2	0.20	
AA 4004	9.0-10.5	0.8	0.25	0.10	1.0-2.0	0.20	-	
AA 4045	9.0-11.0	0.8	0.30	0.05	0.05	0.10	0.20	
AA 4047	11.0-13.0	0.8	0.30	0.15	0.10	0.20	-	
AA 4104	9.0-10.5	0.8	0.25	0.10	1.0-2.0	0.20	-	0.02-0.20 Bi
AA 4147	11.0-13.0	0.8	0.25	0.10	0.10-0.50	0.20	-	
AA 4343	6.8-8.2	0.8	0.25	0.10	0.05	0.20	-	
AA 1145	0.55 Fe + Si		0.05	0.05	0.05	0.05	0.03	Min. 99.45 Al
AA 7072	0.7 Si + Fe		0.10	0.10	0.10	0.8-1.3	-	

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These data are for informational purposes only, and indicate Alcoa's standard alloy offerings. For aluminum alloy solutions customized to your specific product needs, please contact your Alcoa representative.

*Some restrictions may apply. Product offerings are subject to change without notification. Please contact your Alcoa representative for assistance to help evaluate your individual needs.

ALCOA MILL PRODUCTS

1480 Manheim Pike Lancaster, PA 17601 Ph: 800-233-0481 Ext:1243

www.brazingsheet.com

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Verseci u. 1-15. POB. H-8000 Szekesfehervar, Hungary Ph: 0036-22-53-1446

AMP#194R-C

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No. 111, Yanhu Road, Huaqiao Economic Development Zone, Kunshan City, Jiangsu Province, P.R. China, 215332 Ph: 0086-512-5769-8817

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