



HYDRO

Precision shapes available alloys and mechanical properties in North America

Composition in weight percent maximum unless shown as range or a minimum

Alloy	Al	Si	Fe	Mg	Mn	Cu	Zn	Cr	Ti	Other
3003	remainder	.6	.7	-	1.0 - 1.5	.05 - .20	.10	-	-	.15
6005A	remainder	.50 - .9	.35	.40 - .7	.50	.30	.20	.30	.10	.15
6061	remainder	.40 - .80	.7	.8 - 1.2	.15	.15 - .40	.25	.04 - .35	.15	.15
6063	remainder	.20 - .60	.35	.45 - .9	.10	.10	.10	.10	.10	.15
6082	remainder	.7 - 1.3	.50	.6 - 1.2	.40 - 1.0	.10	.20	.25	.10	.15
HA9048	Long Life Alloy									

Other standard and custom alloys available upon request.

Alloy and temper	Specific diameter or thickness (in.)	Area (sq. in)	Tensile strength (ksi)				Minimum elongation Percentage
			Ultimate		Yield		
			Min.	max.	min.	max.	
3003	all	all	14.0	19.0	5.0	-	25
6005A-T5	all	all	38.0	-	35.0	-	8
6061-T4	all	all	26.0	-	16.0	-	16
6061-T6	< 0.250	all	38.0	-	35.0	-	8
6061-T6	0.250 and over	all	38.0	-	35.0	-	10
6063-T4	< 0.501	all	19.0	-	10.0	-	14
6063-T4	0.501 and over	all	18.0	-	9.0	-	14
6063-T5	< 0.501	all	22.0	-	16.0	-	8
6063-T6	0.501 and over	all	21.0	-	15.0	-	8
6063-T6	< 0.125	all	30.0	-	25.0	-	8
6082-T6	0.125 and over	all	30.0	-	25.0	-	10
6082-T6	all	all	42.0	-	36.0	-	6
HA 9048-F	all	all	11.5	-	4.5	-	25