JCTURAL TU

4130 ALLOY STEEL ROUND SEAMLESS TUBING MIL-T-6736 NORMALIZED /ANNEALED (SOLD IN PRE-CUT LENGTHS)



4130 is a chromium-molybdenum general purpose alloy steel tubing that is weldable and is capable of developing good strength. It has been for years the standard of the aircraft industry. Tensile Strength: 90,000 PSI. The stock sizes listed below can be furnished in lengths from 1 foot to 12 feet. Large orders are filled in random lengths from 10 to 12 feet unless specific lengths are requested. No charge is made for cutting stock sizes of tubing to mailable length. Quotations furnished on unlisted sizes.

IF MFG TEST REPORTS ARE REQUIRED THERE IS A --- CHARGE PER ORDER. PLEASE INDICATE AT TIME OF ORDER

O.D. (ln.)	Wall Thickness	l.D. (In.)	Wt. Per Ft.	Part No.	Price Per Ft.
3/16	.035	.131	.0478	03-00183	
	.028	.194	.0672	03-00250	
	.035	.180	.0804	03-00300	
1/4	.049 .058	.152 .134	.1052 .1189	03-00400 03-00500	
	.058	.134	.1284	03-00500	
	.028	.256	.0852	03-00600	
	.035	.243	.1039	03-00700	
5/16	.049	.215	.1382	03-00800	
	.058 .065	.196 .182	.1580 .1722	03-00810 03-00900	
	.085	.102	.2212	03-01000	
	.028	.319	.1038	03-01100	
	.035	.305	.1271	03-01200	
	.049	.277	.1706	03-01300	
3/8	.058	.259	.1964	03-01400	
	.065 .083	.249 .209	.2152 .2588	03-01500 03-01600	
	.095	.185	.2841	03-01610	
	.035	.367	.1506	03-01700	
	.049	.340	.2036	03-01800	
7/16	.058	.125	.236	03-00067	
	.065 .095	.307 .247	.2589 .3480	03-02000 03-02100	
	.120	.197	.4075	03-02200	
	.028	.444	.1411	03-02300	
	.035	.430	.1738	03-02400	
	.049	.402	.2360	03-02500	
1/2	.058 .065	.384 .370	.2738 .3020	03-02600 03-02700	
	.083	.334	.3696	03-02710	
	.095	.310	.4109	03-02800	
	.120	.260	.4870	03-02900	
	.035 .049	.492 .464	.1974 .2690	03-03000 03-03100	
9/16	.049	.404	.3457	03-03200	
0,10	.120	.322	.5677	03-03400	
	.028	.569	.1785	03-03500	
	.035	.555	.2205	03-03600	
5/8	.049 .058	.527 .509	.3014 .3512	03-03700 03-03800	
3/0	.065	.495	.3888	03-03900	
	.095	.435	.5377	03-04000	
	.120	.385	.6472	03-04100	
	.156	.313	.7814	03-04110	
	.028 .035	.694 .680	.2159 .2673	03-04250 03-04300	
	.049	.652	.3668	03-04400	
3/4	.058	.634	.4287	03-04500	
	.065	.620	.4755	03-04600	
	.095 .120	.560 .510	.6646 .8074	03-04700 03-04800	
	.156	.437	.9897	03-04900	
	.188	.375	1.128	03-05000	
	.035	.805	.3140	03-05300	
	.049 .058	.777 .759	.4323 .5061	03-05400 03-05500	
	.058	.759	.5623	03-05500	
7/8	.083	.709	.7021	03-05700	
	.095	.685	.7914	03-05800	
	.120 .188	.635 .500	.9676 1.379	03-05900 03-06000	
	.100	.500	1.3/9	000000	

Please call for price on any unlisted size. Discount of 10% for 100 ft. or more of the same part number.

4130 TUBING KITS

We furnish complete 4130 tubing kits for a variety of aircraft designs including the Skybolt, Pitts Special, Acro Sport, Starduster, Osprey, and many more. The kits contain sufficient round, square, & streamline tub-ing to produce the pieces shown on our materials list for each design. We urge the builder to verify his own materials list against ours. Request kit list you require & current quotation. Enjoy big savings by purchasing a complete tubing kit for your aircraft at one time.

O.D. (ln.)	Wall Thickness	I.D. (In.)	Wt. Per Ft.	Part No.	Price Per Ft.
	.028	.944	.2907	03-06110	
	.035	.930	.3607	03-06100	
	.049	.902	.4977	03-06200	
	.058	.884	.5835	03-06300	
	.065	.870	.6491	03-06400	
1	.083	.834	1.0	03-06450	
	.095 .120	.810 .760	.9182 1.128	03-06500 03-06600	
	.156	.687	1.406	03-06700	
	.188	.625	1.630	03-06800	
	.035	1.055	.4074	03-06900	
	.049	1.027	.5631	03-07000	
	.058	1.009	.6609	03-07100	
1-1/8	.065	.995	.7359	03-07200	
	.095	.935	1.045	03-07300	
	.120	.885	1.288	03-07400	
	.035	1.180	.4542	03-07500	
	.049	1.152	.6285	03-07600	
	.058	1.134	.7384	03-07700	
1-1/4	.065	1.120	.8226	03-07800	
	.083	1.084	2.132	03-07810	
	.095	1.060	1.172	03-07900	
	.120	1.010	1.448	03-08000	
	.156	.938	1.823	03-08100	
	.035	1.305	.5009	03-08210	
	.049	1.277	.6939	03-08200	
	.058	1.259	.8158	03-08300	
1-3/8	.065 .095	1.245 1.185	.9094 1.299	03-08400 03-08500	
1-3/0	.120	1.105	1.609	03-08600	
	.188	1.000	2.383	03-08700	
	.035	1.430	.5476	03-08800	
	.049	1.402	.7593	03-08900	
	.058	1.384	.8932	03-09000	
1-1/2	.065	1.370	.9962	03-09100	
	.083	1.334	1.256	03-09110	
	.095	1.310	1.426	03-09200	
	.120	1.260	1.769	03-09300	
	.188	1.125	2.634	03-09400	
	.058	1.509	.9707	03-09600	
	.065	1.495	1.083	03-09700	
1 5/0	.083	1.459	1.10	03-00042	
1-5/8	.095	1.435	1.552	03-09800	
	.120 .156	1.385	1.929 2.447	03-09900 03-10000	
	.188	1.312 1.250	2.447	03-10100	
	.049	1.652	.8902	03-10200	
	.058	1.632	1.048	03-10200	
	.065	1.620	1.170	03-10210	
1-3/4	.005	1.560	1.679	03-10400	
	.120	1.510	2.089	03-10500	
	.188	1.375	3.136	03-10510	
1-7/8	.250	1.375	2.249	03-10600	
	.049	1.902	1.021	03-10710	
2	.065	1.870	1.343	03-10800	
	.095	1.810	1.933	03-10900	
	.120	1.760	2.409	03-11000	
	.188	1.625	3.638	03-00193	
2-1/4	.120	2.010	2.730	03-11100	
	.095	1.81	1.933	03-11150	
2-1/2	.250	2.000	6.008	03-11206	
					1
	.120	2.260	3.050	03-11200	

Available in 1', 2', 3', 4', 5', 6', 8', 10' and 17' pre-cut lengths. Use basic p/n and add -1, -2, -3, -4, -5, -6, -8, -10 or -17 to complete the part number.

Example: A 3 ft. length of tubing is p/n 03-00183-3.

BARGAIN BAG 4130 TUBING



Starter Kit - An assortment of 4130 tubing, rod and bar in short lengths to practice welding. At least 15 ft. of tubing in assorted sizes and wall thicknesses. Furnished subject to availability of cutoffs. P/N 03-15900 ---

ME

_ TUBI G&RO



4130 STREAMLINE TUBING MIL-T6736 NORMALIZED

(SOLD IN PRE-CUT LENGTHS)

The prices for streamline tubing have increased sharply. The only manufacturer of streamline tubing, Columbia Summerill, have encountered problems with cracking on the trailing edge intermittently for many years and it has been a worrisome problem for builders. In an effort to control the situation, Columbia Summerill have installed sophisticated inspection equipment in their plant to assure that no cracked tubing gets into the field again. The cost of the equipment is reflected in the prices for the tubing which must be shared by all.

Major	Minor		Equiva				
Axis	Axis	Wall	Round Tension	Tubing Compr.	Wt./ Ft.	Part No.	Price Per Ft.
1.150	.745	.035	7/8	7/16	0.314	03-00232	
1.180	.500	.035	7/8"	7/16"	.3140	03-11400	
1.30	.600	.049	1	5/8	0.498	03-00233	
1.349	.571	.049	1"	5/8"	.4977	03-11500	
1.645	.740	.049	1-1/4	3/4	0.629	03-00234	
1.685	.714	.049	1-1/4"	3/4"	.6285	03-11600	
1.990	.870	.049	1-1/2	1	0.759	03-00235	
2.023	.857	.049	1-1/2"	1"	.7593	03-11700	
2.360	.960	.049	1-3/4	1-1/8	0.890	03-00236	
2.360	1.000	.049	1-3/4"	1-1/8"	.8902	03-11800	
2.665	1.140	.065	2	1-1/2	1.343	03-00237	
2.697	1.143	.065	2"	1-1/4"	1.021	03-00192	
3.372	1.429	.049	2-1/2"	1-1/2"	1.283	03-12000	

Available in 1', 2', 3', 4', 5', 6', 8', 10' and 17' pre-cut lengths. Use basic p/n and add -1, -2, -3, -4, -5, -6, -8, -10 or -17 to complete the part number. Example: A 3 ft. length of tubing is p/n 03-00183-3.



4130 AIRFRAME SQUARE & RECTANGULAR TUBING MIL-T-6736 NORMALIZED (SOLD IN PRE-CUT LENGTHS)

O.D. (In.)	Wall (In.)	Weight Per Ft.	Part No.	Price Per Ft.
1/2 x 1/2	.035	.2213	03-12200	
1/2 x 1	.065	.6055	03-12350	
	.035	.2808	03-12400	
5/8 x 5/8	.049	.4234	03-12500	
	.065	.388	03-12600	
	.035	.3403	03-12700	
3/4 x 3/4	.049	.4671	03-12800	
	.065	.6055	03-13000	
	.065	.7160	03-13300	
	.035	.4593	03-13400	
1 x 1	.049	.6337	03-13500	
	.065	.8265	03-13700	
3/4 x 1-1/2	.049	.9057	03-13900	
1 x 1-3/4	.065	1.158	03-13950	

Available in 1', 2', 3', 4', 5', 6', 8', 10' and 17' pre-cut lengths. Use basic p/n and add -1, -2, -3, -4, -5, -6, -8, -10 or -17 to complete the part number. Example: A 3 ft. length of tubing is p/n 03-00183-3.



E-4340 ROUND STEEL ROD SPEC. MIL-S-8503 COLD FINISHED ANNEALED (SOLD IN PRE-CUT LENGTHS)

E4340 rod has high fatigue strength and maintains its hardness and strength qualities even at high tem-peratures. Excellent for use in highly stressed parts. Meets AMS2032 and is furnished normalized and tempered cold finished.

Dia. (In.)	Wt./Ft. (Lbs.)	Part No.	Price Per Ft.
1	2.67	03-26700	
1-1/4	4.173	03-26850	
1-3/8	5.049	03-26900	
2	11.20	03-26950	

Available in 1', 2', 3', 4', 5', 6', 8', 10' and 17' pre-cut lengths. Use basic p/n and add -1, -2, -3, -4, -5, -6, -8, -10 or -17 to complete the part number. Example: A 3 ft. length of tubing is p/n 03-00183-3.



STAINLESS STEEL TUBING (SOLD IN PRE-CUT LENGTHS)

Tubing Type	O D.	Wall	Part No.	Price/Ft.
304 Welded	3/8"	.028"	03-16100	
321 Welded	1-1/2"	.035"	03-16300	
321 Welded	1- 3/4"	.035"	03-16400	
321 Welded	2"	.035"	03-16500	
304 Seamless	1/8	.020"	03-00148	
304 Seamless	1/8"	.035"	03-16010	
304 Seamless	3/16"	.035"	03-16020	
304 Seamless	1/4"	.035"	03-16030	
304 Seamless	5/16"	.035"	03-16040	
304 Seamless	3/8"	.035"	03-16045	
304 Seamless	1/2"	.035"	03-16050	
304 Seamless	5/8"	.035"	03-16060	
321 Seamless	1-1/4"	.028"	03-16540	
321 Seamless	1-1/2"	.035"	03-16560	

Available in 1', 2', 3', 4', 5', 6', 8', 10' and 17' pre-cut lengths. Use basic p/n and add -1, -2, -3, -4, -5, -6, -8, -10 or -17 to complete the part number. Example: A 3 ft. length of tubing is p/n 03-00183-3.

BUSHING STOCK 1015/1020 STEEL

Seamless mechanical tubing may be used either statically or dynamically. Its close tolerance, good finish and dense structure make it ideal for parts such as shafts, bushings, bearings, etc. Tensile strength 80,000 PSI. Drill or ream for proper bolt fit. SPECIFY CUTTING INSTRUCTIONS FOR SHIPMENT

O.D.	I.D.	Wall	Part No.	Price Per Ft.			
3/8"	1/4"	.065"	03-16700				
1/2"	3/8"	.065"	03-16900				
ROUND BRASS SEAMLESS TUBING							
0.D.	I.D	Wall	Part No.	Price Per Ft.			

O.D.	I.D	Wall	Part No.	Price Per Ft.
1 /4"	3/16"	.032"	03-17300	
7 / 16"	5/16"	.065"	03-17600	
1/ 2"	3/8"	.065"	03-17800	

4130 ROUND STEEL ROD COLD FINISHED SPEC. MLL-S-6758A-NORMALIZED (SOLD IN PRE-CUT LENGTHS)

D : (1)	14/1 /m-1		
Dia (In.)	Wt./Ft.	Part No.	Price Per Ft.
1/8	.042	03-20100	
3/16	.092	03-20200	
1/4	.167	03-20300	
5/16	.261	03-20400	
3/8	.376	03-20500	
7/16	.511	03-20600	
1/2	.668	03-20700	
9/16	.845	03-20800	
5/8	1.043	03-20900	
3/4	1.502	03-21000	
7/8	2.044	03-21100	
1	2.670	03-21200	
1-1/4	4.173	03-21300	
1-3/8	5.049	03-21400	
1-1/2	6.008	03-21500	
1-3/4	8.178	03-21600	

Available in 1', 2', 3', 4', 5', 6', 8', 10' and 17' pre-cut lengths. Use basic p/n and add -1, -2, -3, -4, -5, -6, -8, -10 or -17 to complete the part number. Example: A 3 ft. length of tubing is p/n 03-00183-3. add -1, -2,

TAINLESS STEEL ROD TYPE 304 CD



3/16" Diameter type 304 CD stainless steel rod. Used in "new canard" for Long-EZ as specified by

3/8" PIPER CHANNEL

Available in mild steel. 0.020" thick. 6-ft. lengthP/N 05-04564

IF MFG TEST REPORTS ARE REQUIRED THERE IS A --- CHARGE PER ORDER. PLEASE INDICATE AT TIME OF ORDER.

4130 SHEET



4130 STEEL SHEETS & STRIPS MIL-S-6345A NORMALIZED

This chromium-molybdenum alloy is one of the most widely used aircraft steels because of its combination of weldability, ease of fabrication and mild hardenability. It will respond to heat treatment to high strength levels and yet, in the annealed condition, it has adequate strength for many applications. Used for the manufacture of parts and components. Tensile strength 75,000-85,000 PSI. Furnished cold-rolled and oiled in sheet thicknesses of .025-.125 inch. Sheets of .190-.250 inch and greater thickness are hot-rolled, pickled and oiled. Sheared to sheet and strip sizes listed below. Subject to availability of normalized sheet, annealed 4130 sheet may be substituted.

4130 STEEL SHEET

T 1. : . I	Price per Piece												
Thickness	6" x	12'	9" :	k 9"	9" x	18"	18" x	18"	18" x	36"	18" x 72"		Wt.**
(ln.)	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	(Lbs.)
.025	03-21800		03-21850		03-21900		03-22000		03-22100		03-22150		2.30
.032	03-22510		03-22515		03-22520		03-22525		03-22530		03-22535		
.040	03-22600		03-22650		03-22700		03-22800		03-22900		03-22950		3.75
.050	03-23000		03-23050		03-23100		03-23200		03-23300		03-23350		4.80
.063	03-23400		03-23450		03-23500		03-23600		03-23700		03-23750		5.85
.071	03-23800		03-23850		03-23900		03-24000		03-24100		03-24150		6.55
.080	03-24200		03-24250		03-24300		03-24400		03-24500		03-24550		7.15
.090	03-24600		03-55500		03-24700		03-24800		03-24900		03-24950		8.15
.100	03-25000				03-25100		03-25200		03-25300		03-25350		10.45
.125	03-55300		03-25370		03-25400		03-25500		03-25600				11.25
.190			03-25660		03-25700		03-25750		03-26025				17.50
.250			03-25850		03-25900		03-25950		03-26050		03-00106		94.00

** Wt. per 18" x 18" sheet.

 Less 10% discount on 6 sheets 18" x 36" or 3 sheets of 18" x 72" per part number.

 4130 STEEL STRIPS
 4130 STEEL SHEET
 E4340 F

Thickness		Part No.	Price*			
.025	5/8" x 72"	03-18000-6				
.025	1" x 72"	03-18100-6				
.032	5/8" x 72"	03-18110-6				
.032	1" x 72"	03-18120-6				
.032	2" x 72"	03-18130-6				
.032	3" x 72"	03-18140-6				
.040	5/8" x 72	03-18200-6				
.040	1" x 72"	03-18300-6				
.040	2" x 72"	03-18310-6				
.040	3" x 72"	03-18320-6				
.050	1" x 72"	03-18400-6				
.050	2" x 72"	03-18410-6				
.050	3" x 72"	03-18420-6				
.063	5/8" x 72"	03-18500-6				
.063	3/4" x 72"	03-18600-6				
.063	1" x 72"	03-18700-6				
.063	1-1/4" x 72"	03-18800-6				
.063	1-1/2" x 72"	03-18900-6				
.063	2" x 72"	03-19000-6				
.063	3" x 72"	03-19100-6				
.071	5/8" x 72"	03-19180-6				
.071	1" x 72"	03-19200-6				
.071	2" x 72"	03-19210-6				
.071	3" x 72"	03-19220-6				
.080	5/8" x 72"	03-19280-6				
.080	1" x 72"	03-19290-6				
.080	2" x 72"	03-19300-6				
.090	1" x 72"	03-19400-6				
.090	1-1/2" x 72"	03-19500-6				
.090	2" x 72"	03-19520-6				
.090	3" x 72"	03-19600-6				
.100	1" x 72"	03-19610-6				
.100	1-1/2" x 72"	03-19620-6				
.100	3" x 72"	03-19630-6				
.125	1" x 72"	03-19700-6				
.125	1-1/2" x 72"	03-19800-6				
.125	2" x 72"	03-19820-6				
.125	3" x 72"	03-19900-6				
.250	1-1/4" x 18"	03-20000				

* 3-Ft. lengths available at the half price of

6 ft. lengths are subject to UPS oversize charges. Consider 3 ft. lengths which ship

(As Used in Christavia Kits)							
Thickness	Size	Part No.	Price				
			THEE				
.040	8" x8"	03-56302					
.040	12" x 12"	03-56304					
.040	12" x 20"	03-56316					
.040	10" x 26'	03-56312					
.040	12" x 24"	03-56306					
.040	14" x 30"	03-56308					
.040	18" x30"	03-56310					
.040	24" x 24"	03-56314					
.050	4" x 24"	03-56320					
.050	12" x 12"	03-56318					
.050	8" x 24"	03-56322					
.050	12" x 24"	03-56324					
.063	10" x 10"	03-56326					
.063	10" x 14"	03-56332					
.063	12" x 12"	03-56328					
.063	12" x 24"	03-56330					
.071	4" x 4"	03-56334					
.071	12" x 12"	03-56336					
.071	12" x 24"	03-56338					

2" x 10" 03-56354 .080 .080 12" x 24" 03-56340 ---.090 2" x 10" 03-56344 ----.090 6" x 8" 03-56342 ---.090 12" x 24" 03-56346 ---.125 10" x 24" 03-56348 ----

03-56350

WELD BRUSH

12" x 24"

.125



E4340 RECTANGULAR FLAT STEEL SPEC. MIL-S-5000 ANNEALED

This chromium-nickel-molybdenum alloy, "king" of the hardening grades of alloy steels, possesses much deeper hardenability than the 4100 series. The fatigue-tensile ratio makes it ideal for highly stressed parts such as landing gear legs, and is often referred to as "spring steel". Tensile strength is about 110,000 PSI. It is difficult to weld but can be welded by any of the common welding processes providing the section is preheated and stress relieved after welding.

Size (In.)	Wt./Ft (Lbs.)	Part No.	Price/Ft.
1/4 x 1-1/2	1.275	03-26100	
1/4 x 2	1.702	03-26150	
3/8 x 2	2.550	03-26200	
1/2 x 3	5.100	03-26300	
1/2 x 4	6.800	03-26400	

WELDING ROD NO. 7



For big-strength welds in steel plate, sheet, structural shapes, pipe and steel castings. Supplied in 36" lengths in sizes 1/16", 3/32" and 1/8".

NO. 7 – Used in general commercial welding and by many mechanics for non-heat-treated airframe repairs.

1/16" Dia...... P/N 03-27300**---/lb.** 1/8" Dia...... P/N 03-27500**---/lb**

ESAB SPOOLARC 83 TIGROD - Contains



0.5% Mo to provide higher deposit strength in both the as welded and stress relieved conditions. It contains high levels of Manganese and Silicon to provide

IF MFG TEST REPORTS ARE REQUIRED THERE IS A --- CHARGE PER ORDER. PLEASE INDICATE AT TIME OF ORDER

6' lengths.

at cheaper rates

1100 This grade is commercially pure aluminum. It is soft and ductile and has excellent workability. It is ideal for applications involving intricate forming because it work hardens more slowly than other alloys. It is the most weldable of aluminum alloys, by any method. It is non heat-treatable. It has excellent resistance to corrosion and is widely used in the chemical and food processing industries. It responds well to decorative finishes which make it suitable for giftware.

2011 This is the most free-machining of the common aluminum alloys. It also has excellent mechanical properties. Thus, it is widely used for automatic screw machine products in parts requiring extensive machining.

2014 & 2017 The 2017 alloy combines excellent machinability and high strength with the result that it is one of the most widely used alloys for automatic screw machine work. It is a tough, ductile alloy suitable for heavy-duty structural parts. Its strength is slightly less than that of 2014.

2024 This is one of the best known of the high strength aluminum alloys. With its high strength and excellent fatigue resistance, it is used to advantage on structures and parts where good strength-toweight ratio is desired. It is readily machined to a high finish. It is readily formed in the annealed condition and may be subsequently heat treated. Arc or gas welding is generally not recommended, although this alloy may be spot, seam or flash welded. Since corrosion resistance is relatively low, 2024 is commonly used with an anodized finish or in clad form ("Alclad") with a thin surface layer of high purity aluminum. Applications: aircraft structural components, aircraft fittings, hardware, truck wheels and parts for the transportation industry.

3003 This is the most widely used of all aluminum allovs. It is essentially commercially pure aluminum with the addition of manganese which increases the strength some 20% over the 1100 grade. Thus, it has all the excellent characteristics of 1100 with higher strength. It has excellent corrosion resistance. It has excellent workability and it may be deep drawn or spun, welded or brazed. It is non heat treatable. Applications: cooking utensils, decorative trim, awnings, siding, storage tanks, chemical equipment.

5005 This allov is generally considered to be an improved version of 3003. It has the same general mechanical properties as 3003 but appears to stand up better in actual service. It is readily workable. It can be deep drawn or spun, welded or brazed. It has excellent corrosion resistance. It is non heat-treatable. It is well suited for anodizing and has less tendency to streak or discolor. Applications same as 3003.

5052 This is the highest strength alloy of the more common non heat-treatable grades. Fatigue strength is higher than most aluminum alloys. In addition this grade has particularly good resistance to marine atmosphere and salt water corrosion. It has excellent workability. It may be drawn or formed into intricate shapes and its slightly greater strength in the annealed condition minimizes tearing that occurs in 1100 and 3003. Applications: Used in a wide variety of applications from aircraft components to home appliances, marine and transportation industry parts, heavy duty cooking utensils and equipment for bulk processing of food.

5083 & 5086 For many years there has been a need for aluminum sheet and plate alloys that would offer, for high strength welded applications, several distinct benefits over such alloys as 5052 and 6061. Some of the benefits fabricators have been seeking are greater design efficiency, better welding characteristics, good forming properties, excellent resistance to corrosion and the same economy as in other non heat-treatable alloys. Metallurgical research has developed 5083 and 5086 as superior weldable alloys which fill these needs. Both alloys have virtually the same characteristics with 5083 having slightly higher mechanical properties due to the increased manganese content over 5086. Applications: unfired pressure vessels, missile containers, heavy-duty truck and trailer assemblies, boat hulls and superstructures.

6061 This is the least expensive and most versatile of the heattreatable aluminum allovs. It has most of the good qualities of aluminum. It offers a range of good mechanical properties and good corrosion resistance. It can be fabricated by most of the commonly used techniques. In the annealed condition it has good workability. In the T4 condition fairly severe forming operations may be accomplished. The full T6 properties may be obtained by artificial aging. It is welded by all methods and can be furnace brazed. It is available in the clad form ("Alclad") with a thin surface layer of high purity aluminum to improve both appearance and corrosion resistance. Applications: This grade is used for a wide variety of products and applications from truck bodies and frames to screw machine parts and structural components. 6061 is used where appearance and better corrosion resistance with good strength are required.

6063 This grade is commonly referred to as the architectural alloy. It was developed as an extrusion alloy with relatively high tensile properties, excellent finishing characteristics and a high degree of resistance to corrosion. This alloy is most often found in various interior and exterior architectural applications, such as windows, doors, store fronts and assorted trim items. It is the alloy best suited for anodizing applications - either plain or in a variety of colors.

7075 This is one of the highest strength aluminum alloys available. Its strength-to weight ratio is excellent and it is ideally used for highly stressed parts. It may be formed in the annealed condition and subsequently heat treated. Spot or flash welding can be used, although arc and gas welding are not recommended. It is available in the clad ("Alclad") form to improve the corrosion resistance with the over-all high strength being only moderately affected. Applications: Used where highest strength is needed.

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ALUMINUM ALLOY DESIGNATIONS

The aluminum industry uses a four-digit index system for the designation of its wrought aluminum alloys.

As outlined below, the first digit indicates the alloy group according to the major alloying elements.

1XXX SERIES

In this group. Minimum aluminum content is 99%. and there is no major alloying element.

The second digit indicates modifications in impurity limits. If the second digit is zero, there is no special control on individual impurities. Digits 1 through 9, which are assigned consecutively as needed, indicate special control of one or more individual impurities.

The last two digits indicate specific minimum aluminum content. Although the absolute minimum aluminum content in this group is 99% the minimum for certain grades is higher than 99%, and the last two digits represent the hundredths of a per cent over 99.

Thus, 1030 would indicate 99.30% minimum aluminum. Without special control on individual impurities. The designations 1130, 1230, 1330, etc. indicate the same purity with special control on one or more impurities. Likewise. 1100 indicates minimum aluminum content of 99.00% with individual impurity control.

2XXX THROUGH 9XXX SERIES

The major alloying elements are indicated by the first digit, as follows

Copper
Manganese
Silicon
Magnesium
Magnesium and silicon
Zinc
Other element
Unused series

The second digit indicates alloy modification. If the second digit is zero, it indicates the original alloy: digits 1 through 9, which are assigned consecutively, indicate alloy modifications. The last two digits have no special significance, serving only to identify the different alloys in the group.

EXPERIMENTAL ALLOYS

Experimental alloys are designated according to the four digit system, but they are prefixed by the letter X. The prefix is dropped when the alloy becomes standard. During development, and before they are designated as experimental, new alloys are identified by serial numbers assigned by their originators. Use of the serial number is discontinued when the X number is assigned.

ALUMINUM TEMPER DESIGNATIONS

Temper designations of wrought aluminum alloys consist of suffixes to the numeric alloy designations. For example, in 3003-H14, 3003 denotes the alloy and "H14" denotes the temper, or degree of hardness. The temper designation also reveals the method by which the hardness was obtained. Temper designations differ between non heat-treatable alloys and heat-treatable alloys, and their meanings are given below:

NON HEAT-TREATABLE ALLOYS

The letter "H" is always followed by 2 or 3 digits. The first digit indicates the particular method used to obtain the temper, as follows:

H1 means strain hardened only.

- H2 means strain hardened, then partially annealed.

H3 means strain hardened, then stabilized.

The temper is indicated by the second digit as follows:

2	1/4 hard
4	1/2 hard
6	3/4 hard
8	full hard

9 extra hard

Added digits indicate modification of standard practice.

HEAT-TREATABLE ALLOYS

-F	As fabricated	
-0	Annealed	
-Т	Heat treated	

The letter "T" is always followed by one or more digits. These digits indicate the method used to produce the stable tempers, as follows

cale the meth	iou used to produce the stable tempers, as follows.
-T3	Solution heat treated, then cold worked.
-T351	Solution heat treated, stress-relieved stretched, then cold worked.
-T36	Solution heat treated, then cold worked (controlled).
-T4	Solution heat treated, then naturally aged.
-T451	Solution heat treated, then stress relieved stretched.
-T5	Artificially aged only.
-T6	Solution heat treated, then artificially aged.
-T61	Solution heat treated (boiling water quench), then artificially aged.
-T651	Solution heat treated, stress-relieved stretched, then artificially aged (precipitation heat treatment).
-T652	Solution heat treated, stress relieved by compression. then artificially aged.
-T7	Solution heat treated, then stabilized.
-T8	Solution heat treated, cold worked, then artificially aged.
-T81	Solution heat treated, cold worked (controlled), then artificially aged.
-T851	Solution heat treated, cold worked, stress-relieved stretched, then artificially aged.
-T9	Solution heat treated, artificially aged, then cold worked.
-T10	Artificially aged, then cold worked.
	Added digits indicate modification of standard practice.

COMPARISON OF MODERN & OLD SYSTEMS OF ALUMINUM ALLOY DESIGNATION

Although the old system of aluminum identification has been obsolete for many years, stock with the old markings is still occasionally found. The following comparison is presented as an aid in identifying such materials in terms of the modern system.

In the old system, alloy composition was indicated by a one- or two-digit number followed by the letter "S" to indicate that it was a wrought alloy, i.e., an alloy that could be shaped by rolling, drawing or forging. Any variation in the basic composition was indicated by a letter preceding the numerical alloy designation. For example, A17S was a modification of the basic alloy 17S. In modern terminology these two alloys are designated 2117S and 2017S, respectively. Temper was designated by a second letter: "O" for soft (annealed), "H"for strain hardness of non heat-treatable alloys, and "T"for hardness of heat-treatable alloys. Degree of hardness of non heat-treatable alloys was indicated by a fraction preceding the letter "H". For example, 3S1/4H would be quarter-hard 3S alloy.

The following Table gives examples of the old and modern designations of some common aluminum alloys.

Modern System	Old System
1100	2S
3003	3S
3003-0	3SO
2014	14S
2017	17S
2117	A17S
2018	18S
2218	B18S
2024T	24ST
5052	52S
7075T6	75ST6

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UMINUM PLATE & SHEET DATA

ALUMINUM ALLOY CHARACTERISTICS

		Gene	eral A	vaila	bility			Турі	cal C	harac	teris	tics*		Specified Mechanical Properties											
					et		8				We	eldabi	ility												
											h Sheet		Corrosion Resistance	oility	>				spot		Where range is shown, property va specific width and/or thickness dim				
	lloy	Temper	Sheet	eet	Length		on Re	Cold Workability	Machinability	ility			steam steam		Tensile Strength - Ksi			Elongation in 2" or 4 times diameter-							
			ъ	بې ۲	to to	Ð	osi	Ň	hin	zab				Ultir	nate	Yi	eld	percent i	ninimum						
			Flat	Coil Sheet	Cut	Plate	-	Colo		Brazability	Gas		and		Maximum		Maximum	Sheet	Plate						
υ		0	Х	Х	Х	-	Α	Α	D	A	Α	Α	В	11	15.5	3.51	-	15-30	-						
ā	1100	H14	Х	Х	Х	-	Α	Α	С	Α	Α	Α	Α	16	21	141	-	3-9	-						
ata		F	-	-	-	Х	-	-	-	-	-	-	-	-	-	-	-	-	-						
Non-Heat Treatable Alloys		0	Х	Х	Х	-	Α	Α	D	Α	Α	Α	В	14	19	51	-	14-25	-						
l ∓ ŝ	3003	H14	Х	Х	Х	-	Α	В	С	A	Α	Α	A	20	26	171	-	1-7	-						
Alea		F	-	-	-	Х	-	-	-	-	-	-	-	-	-	-	-	-	-						
ΙŦ		0	Х	Х	Х	-	Α	Α	D	С	Α	Α	В	25	31	9.51	-	15-20	-						
ş	5052	H32	Х	Х	Х	Х	Α	В	С	С	Α	Α	A	31	38	231	-	4-9	11-12						
2		H34	Х	Х	Х	-	Α	В	С	С	Α	Α	A	34	41	261	-	3-7	-						
		O ³	Х	-	-	Х	С	В	D	D	D	С	В	-	32	-	14	12	12						
	Bare	T3	Х	-	-	-	С	С	В	D	D	С	A	63-64	-	42	-	10-15	-						
	2024	T351	-	-	-	Х	С	С	В	D	D	С	A	56-64	-	40-41	-	-	4-12						
		T42 ²	-	-	-	-	С	С	В	D	D	С	A	58-62	-	38	-	12-15	4-12						
s		O ³	Х	Х	-	Х	Α	В	D	D	D	С	В	-	30-32	-	14	10-12	12						
l ∂	Alclad	T3	Х	-	-	-	Α	D	В	D	D	С	A	58-63	-	39-40	-	10-15	-						
Alloys	2024	T351	-	-	-	х	Α	D	В	D	D	С	A	56-63	-	40-41	-	-	4-8						
		T42 ²	-	-	-	-	Α	D	В	D	D	С	A	55-61	-	34-38	-	10-15	4-12						
ab		O ³¹	Х	Х	-	Х	Α	Α	D	Α	Α	Α	В	-	22	12	12	10-18	16-18						
eat		T4	Х	-	-	-	Α	С	С	A	Α	Α	A	30	-	16	-	10-16	-						
<u>⊢</u>	6061	T6	Х	-	-	-	Α	С	С	Α	Α	Α	A	42	-	35	-	4-10	-						
Heat-Treatable		T651	-	-	-	Х	Α	С	С	Α	Α	Α	A	40-42	-	35	-	-	6-10						
le le		T42 ²	-	-	-	-	Α	С	С	Α	Α	Α	Α	30	-	14	-	10-16	16-18						
-	Bare	O ¹	Х	-	-	-	С	D	D	D	D	D	В	-	40	-	21	10	-						
		T6	Х	-	-	-	С	D	В	D	D	D	В	76-77	-	65-66	-	7-8	-						
	7075	T651	-	-	-	Х	С	D	В	D	D	D	В	67-77	-	53-66	-	-	2-8						
	Alclad	O ¹	Х	Х	-	-	Α	В	С	D	D	D	В	-	36-39	-	20-21	9-10	-						
	7075	T6	Х	-	-	-	Α	D	В	D	D	D	В	68-75	-	58-64	-	5-8	-						

Ratings A, B, C, D are relative in decreasing order of merit. weldability and brazability ratings are specifically defined as:
A - Generally weldable by all commercial procedures and methods.
B - Weldable with special technique or specific applications which justify preliminary trials or testing to develop welding procedure and weld performance.
C -Limited weldability because of crack sensitivity or loss on resistance to corresting and ell machenial procedures and resistance.

D - No commonly used welding methods have so far been developed.

These yield strengths not determined unless specifically requested.
 Although sheet and plate are not sold in this temper, material heat treated from any temper by the user should attain the mechanical properties applicable to this temper.
 Annealed (0 temper) material shall, upon heat treatment, be capable of developing the mechanical properties applicable to T 42 temper material.
 Annealed (0 temper) material shall, upon heat treatment and aging, be capable of developing the mechanical properties applicable to T 67 temper material.

APPROXIMATE MINIMUM RADIUS FOR 90° COLD BEND

Where range is shown, use smaller radius with extreme caution.

Alley	Tommor	RA	DIUS For Vario	us Thicknesse	s Expresses in	Terms of Thick	mess "t"		
Alloy	Temper	1/64 Inch	1/32 Inch	1/16 Inch	1/8 Inch	3/16 Inch	1/4 Inch	3/8 Inch	1/2 Inch
	-0	0	0	0	0	0	0	0	1t-2t
	-H12	0	0	0	0	O-1t	O-1t	O-1t	1t-3t
1100	-H14	0	0	0	0	O-1t	O-1t	O-1t	2t-3t
1100	-H16	0	0	O-1t	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2-1/2t-3-1/2t	3t-4t
	-H18	O-1t	1/2-1-1/2t	1t-2t	1-1/2t-3t	2t-4t	2t-4t	3t-5t	3t-6t
	-0	0	0	0	0	O-1t	O-1t	1-1/2t-3t	3t-5t
Alalad	-T3	1t-2t	1-1/2t-3t	2t-4t	3t-5t	4t-6t	4t-6t	5t-7t	5-1/2t-8t
Alclad 2014	-T4	1t-2t	1-1/2t-3t	2t-4t	3t-5t	4t-6t	4t-6t	5t-7t	5-1/2t-8t
2014	-T6	2t-4t	3t-5t	3t-5t	4t-6t	5t-7t	6t-10t	7t-10t	8t-11t
	-O ²	0	0	0	0	O-1t	O-1t	1-1/2t-3t	3t-5t
	-T3 ²³	1-1/2t-3t	2t-4t	3t-5t	4t-6t	4t-6t	5t-7t	6t-8t	6t-9t
	-36 ²	2t-4t	3t-5t	4t-6t	5t-7t	5t-7t	6t-10t	7t-10t	8t-11t
2024	-T4 ²	1-1/2t-3t	2t-4t	3t-5t	4t-6t	4t-6t	5t-7t	6t-8t	6t-9t
	-T81	3-1/2t-5t	4-1/2t-6t	5t-7t	6-1/2t-8t	7t-9t	8t-10t	9t-11t	9t-12t
	-T86	4t-5-1/2t	5t-7t	6t-8t	7t-10t	8t-11t	10t-13t	10t-13t	1t-2t
	-0	0	0	0	0	0	0	0	1t-2t
	-H12	0	0	0	0	O-1t	O-1t	O-1t	1t-3t
3003	-H14	0	0	0	O-1t	O-1t	1/2t-1-1/2t	1t-2-1/2t	1-1/2t-3t
	-H16	0-1t	01t	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2t-4t	1-1/2t-4t	3t-5t
	-H18	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2t-4t	3t-5t	4t-6t	4t-7t	5t-8t
	-0	0	0	0	0	O-1t	O-1t	1/2t-1-1/2t	1t-2t
	-H32	0	0	0	O-1t	O-1t	1/2t-1-1/2t	1t-2t	1-1/2t-2-1/2t
5052	-H34	0	0	O-1t	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2t-3t	2-1/2t-3-1/2t
	-H36	0-1t	1/2t-1-1/2t	1t-2t	1-1/2t3t	2t-4t	2t-4t	2-1/2t-5t	3t-5-1/2t
	-H38	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2t-4t	3t-5t	4t-6t	4t-7t	5t-8t
	-0	0	0	0	0	O-1t	O-1t	1/2t-2t	1t-1-1/2t
6061	-T4 ²	O-1t	O-1t	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2t-4t	2-1/2t-4t	3t-5t
	-T6 ²	O-1t	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2t-4t	3t-4t	3-1/2t-5-1/2t	4t-6t
7075	-0	0	0	O-1t	1/2t-1-1/2t	1t-2t	1-1/2t-3t	2-1/2t-4t	3t-5t
	-T6 ²	2t-4t	3t-5t	4t-6t	5t-7t	5t-7t	6t10t	7t-11t	7t-12t

1. Minimum permissible radius over which sheet or plate may be bent varies with nature of forming operation, type of forming equipment, and design and conditions of tools. Minimum working radius for a given material or hardest alloy and temper for a given radius can be ascertained only by actual trial under contemplated conditions of fabrication. Where range is shown, use a smaller radius with extreme caution. 2. Alclad sheet can be bent over slightly smaller radii than the corresponding tem-

3. Immediately after quenching, this alloy can be formed over appreciable smaller radii. 4217661360076962

Prices Subject to Change without Notice - Valid as of June 1, 2025. WWW.AIRCRAFTSPRUCE.COM

– S **S**=G



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ALUMINUM SHEET

Aluminum alloy sheet is sold in the thicknesses and sheet sizes shown in the table. Order by part number. No guarantee against scratches is possible due to the handling required to cut sheets to sizes shown.

CUTTING CHARGES: We can cut standard sheet sizes shown in the table to special sizes, but special order cutting charges will apply. Cutting Charges range from \$20 to \$50 or more depending on sizes desired and number of cuts. Special shapes are not cut, only straight edges. Request quote on Cutting Charges prior to order, as special cut pieces are not returnable.

	Curfooo	Thiskness	ness Wt./ Sq.Ft.	Price Per Sheet										
	Finish		(In.)	(Lbs.)	4' x	12'	4' x	(8 '	4' >	(6 '	4' >	(4'	2' >	(4'
Temper		(in.)	(LDS.)	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	
		.016	.230	03-27710		03-27720		03-27730		03-27740		03-27750		
		.020	.288	03-27810		03-27820		03-27830		03-27840		03-27850		
		.025	.360	03-27910		03-27920		03-27930		03-27940		03-27950		
		.032	.461	03-28010		03-28020		03-28030		03-28040		03-28050		
		.040	.576	03-28110		03-28120		03-28130		03-28140		03-28150		
		.050	.720	03-28210		03-28220		03-28230		03-28240		03-28250		
2024T3	Alclad	.063	.907	03-28310		03-28320		03-28330		03-28340		03-28350		
202413		.071	1.02	03-28410		03-28420		03-28430		03-28440		03-28450		
		.080	1.15	03-28510		03-28520		03-28530		03-28540		03-28550		
		.090	1.30	03-28610		03-28620		03-28630		03-28640		03-28650		
		.125	1.80	03-28710		03-28720		03-28730		03-28740		03-28750		
		.160	-	03-70010		03-70020		03-70030		03-70040		03-70050		
		.190	2.74	03-28810		03-28820		03-28830		03-28840		03-28850		
	Bare	.250	3.60	03-28910		03-28920		03-28930		03-28940		03-28950		
2024-0	Alclad	.032	.461	03-29010		03-29020		03-29030		03-29040		03-29050		
2024-0	Alciau	.040	.576	03-29110		03-29120		03-29130		03-29140		03-29150		
		.025	.353	03-29210		03-29220		03-29230		03-29240		03-29250		
		.032	.452	03-29310		03-29320		03-29330		03-29340		03-29350		
		.040	.564	03-29410		03-29420		03-29430		03-29440		03-29450		
6061T4	Bare	.050	.706	03-29510		03-29520		03-29530		03-29540		03-29550		
		.063	.889	03-29610		03-29620		03-29630		03-29640		03-29650		
		.080	1.13	03-29710		03-29720		03-29730		03-29740		03-29750		
		.125	1.76	03-29810		03-29820		03-29830		03-29840		03-29850		
		.016	.228	03-08910		03-08920		03-08930		03-08940		03-08950		
		.020	.285	03-09910		03-09920		03-09930		03-09940		03-09950		
		.025	.353	03-29910		03-29920		03-29930		03-29940		03-29950		
		.032	.452	03-30010		03-30020		03-30030		03-30040		03-30050		
6061T6	Bare	.040	.570	03-31110		03-31120		03-31130		03-31140		03-31150		
000110	Dale	.050	.713	03-31210		03-31220		03-31230		03-31240		03-31250		
		.063	.889	03-30110		03-30120		03-30130		03-30140		03-30150		
		.090	1.27	03-30210		03-30220		03-30230		03-30240		03-30250		
		.125	1.76	03-30310		03-30320		03-30330		03-30340		03-30350		
		.190		03-10010		03-10020		03-10030		03-10040		0310050		
		.020	.282	03-30410		03-30420		03-30430		03-30440		03-30450		
6061-0	Bare	.040	.564	03-30510		03-30520		03-30530		03-30540		03-30550		
0001-0	Dare	.063	.889	03-30610		03-30620		03-30630		03-30640		03-30650		
		.080	1.13	03-30710		03-30720		03-30730		03-30740		03-30750		
		.025	.364	03-60010		03-60020		03-60030		03-60040		03-60050		
		.032	.466	03-61010		03-61020		03-61030		03-61040		03-61050		
7075T6	Alclad	.040	.582	03-62010		03-62020		03-62030		03-62040		03-62050		
101010	Alload	.050	.727	03-63010		03-63020		03-63030		03-63040		03-63050		
		.063	.916	03-64010		03-64020		03-64030		03-64040		03-64050		
		.125	1.82	03-65010		03-65020		03-65030		03-65040		03-65050		
		.025	.364	03-66010		03-66020		03-66030		03-66040		03-66050		
7075-0	Alclad	.032	.466	S10		03-67020		03-67030		03-67040		03-67050		
1010-0	Aiciau	.040	.582	03-68010		03-68020		03-68030		03-68040		03-68050		
		.063	.916	03-69010		03-69020		03-69030		03-69040		03-69050		

For 2'x2' piece of aluminum sheet, take 2'x4' price ÷ 2, and then add 15%. For 2'x2' piece, change last two digits of P/N to "60". Thicknesses of .016", .020", .025", .032", and .040" can be rolled to ship UPS, but will not be returnable if rolled. The softer and thicker the material, the harder it will be to return to a flat surface. Full sheets of **QUANTITY DISCOUNT SCHEDULE:** 10% on 6-10 Full Sheets; 15% on 11-15 Full Sheets. May be assorted thicknesses and alloys. Write for quotation on larger orders. Heavy gauge 2024T4 aluminum plate available in .375, . 500 and .625 thickness. Indicate sheet size required.

3003H-14 SOFT ALUMINUM SHEET

Thick.	P/N #	4' x 12'	P/N #	4' x 8'	P/N #	4' x 6'	P/N #	4' x 4'
.020	03-31410	**	03-31420		03-31430		03-31440	
.025	03-32410		03-32420		03-32430		03-32440	-
.032	03-33410		03-33420		03-33430		03-33440	-
.040	03-34410		03-34420		03-34430		03-34440	
.050	03-34510		03-34520		03-34530		03-34540	-
.063	03-34610		03-34620		03-34630		03-34640	

** Length of full sheet of .025 thickness is 10 ft.

For 2'x4' pcs. of 3003H-14 use "45" as last 2 digits of P/N (Ex: 03-34645)

5052H-32 ALUMINUM SHEET FOR FUEL TANKS

5052H32 Aluminum alloy sheets for fabrication of fuel tanks. Available in full sheets (48"x144") & 1/2 sheets (48"x72") only, in .040 & .050 thicknesses. May be combined with other aluminum sheets for discount. See shipping specs above.

.032 Thickness	Full Sheet	P/N 03-30810
	Half Sheet	P/N 03-30860
.040 Thickness	Full Sheet	P/N 03-30900
	Half Sheet	P/N 03-30950
.050 Thickness	Full Sheet	P/N 03-31000
	Half Sheet	P/N 03-31050



016 ALUMINUM LEADING EDGE 2024T3

18" Wide x 12 ft. (rolled for mailing). Sold in 12 ft. Other widths available at proportionate cost plus shearing charge.

STAINLESS STEEL & GALVANIZED FIREWALL SHEET

Material	Width	Thknes (In.)	Weight/ Lin. Ft.(Lbs)	Part No.	Price/ Lin.Ft.
301 Stainless, 1/2 Hard	36"	.016	2.016	03-31200	
304 Stainless	48"	.018	2.173	03-20010	
302/304 Stainless, Ann.*	48"	.035	4.38	03-31300	
Galvanized Sheet, 26 Ga.	48"	.018	2.718	03-31400	
* 2P Einich					

2D Fillish				
Material	Size	Weight/Lin. Ft.(Lbs)	Part No.	Price ea.
301 SS 1/2 Hard	3' x .025"	26	03-00062	

For 03-00062 Add -1 thru -9 for desired length in feet.

IF MFG TEST REPORTS ARE REQUIRED THERE IS A --- CHARGE PER ORDER.

PLEASE INDICATE AT TIME OF ORDER

MINUM TUBI



ROUND DRAWN ALUMINUM TUBING 2024T3

	I.D. (In.)	Wall Thickness	Wt./Ft. (Lb.)	Part No.	Price Per Ft.
1/4	.180	.035	.2081	03-31600	
5/16	.243	.035	.0366	03-31700	
5/10	.215	.049	.0487	03-31800	
	.305	.035	.0449	03-32000	
3/8	.277	.049	.0602	03-32100	
	.245	.065	.0755	03-32200	
	.430	.035	.0612	03-32500	
1/2	.402	.049	.0829	03-32600	
1/2	.384	.058	.0970	03-32700	
	.370	.065	.1061	03-32800	
	.555	.035	.0775	03-32900	
5/8	.527	.049	.1060	03-33000	
5/8	.509	.058	.1234	03-33100	
	.495	.065	.1367	03-33200	
	.680	.035	.0938	03-33300	
3/4	.652	.049	.1288	03-33400	
	.620	.065	.1670	03-33600	
	.805	.035	.1423	03-33650	
	.777	.049	.1530	03-33700	
7/8	.759	.058	.1777	03-33800	
	.745	.065	.1979	03-33900	
	.635	.120	.3398	03-34000	
	.930	.035	.1250	03-34100	
	.902	.049	.1754	03-34200	
1	.884	.058	.2028	03-34250	
	.870	.065	.2295	03-34400	
	.834	.083	.2866	03-34500	
	1.180	.035	.1601	03-34600	
1-1/4	1.152	.049	.2213	03-34700	
	1.120	.065	.3000	03-00045	
1-3/8	1.277	.049	.2448	03-34800	
1 1/0	1.402	.049	.2683	03-34900	
1-1/2	1.370	.065	.3519	03-35000	
1-3/4	1.250	.250	1.428	03-35075	
2	1.870	.065	.4743	03-35200	



ROUND ALUMINUM TUBING 6061-0 Only available in 6' or 12' lengths. We can cut to smaller

pieces for shipping, but total quantity ordered must equal 6 ft, 12 ft, 18 ft, 24 ft, etc. If manufacturing test reports are required, there is a minimum \$15.00 charge per order. Please indicate in the special instructions box at the time of order that

certs are required. O.D. (In.) I.D. (In.) Wall Thickness Wt./Ft. (Lb.) Part No. 6 ft. 12 ft. .430 .035 .0612 03-38500 .680 3/4.0920 03-38600 ------.930 .035 1250 03-38700 --------1 1.180 .1601 1-1/4 .035 03-38800

for UPS shipment ngths only No ch rge for cutting to 8 ft or le

6061T6 SQUARE ALUMINUM TUBING

Size (In.)	Wall Thickness	Wt/Ft (Lb.)	Part No.	Price Per Ft.
1/2x1/2	.058	.156	03-00008	
3/4x3/4	.049	.217	03-00009	
1x1	.065	.300	03-38900	
2x2	.125	1.120	03-00141	
6061T6511 2x2	.190	1.420	03-00205	
6063T52 2x2	.125	1.120	03-39000	



5052-0 ALUMINUM TUBING

Rigid 5052-0 aluminum alloy tubing is used for low and medium pressure hydraulic systems, fuel lines and oil lines. This tubing will withstand a higher pressure than 3003-0 tubing.

O.D. (In.)	I.D. (In.)	Thickness	Wt./Ft. (Lb.)	Part No.	Price Per Ft.
1/8	.069	.035	.0101	03-39100	
3/16	.132	.035	.0168	03-39200	
1/4	.152	.049	.0371	03-39250	
1/4	.180	.035	.0281	03-39300	
5/16	.242	.035	.0360	03-39400	
3/8	.305	.035	.0449	03-39500	
3/8	.277	.049	.0602	03-39550	
1/2	.436	.035	.0612	03-39600	
^{1/2}	.402	.049	.0829	03-39650	
5/8	.555	.035	.0760	03-39700	
5/0	.527	.049	.1060	03-39750	
3/4	.680	.035	.0938	03-39800	
3/4	.652	.049	.1288	03-39850	
4	.930	.035	.1256	03-39900	
	.902	.049	.1754	03-39950	

Sold in full 6-ft. or 12-ft. lengths only. No charge for cutting to 8 ft. or less for UPS shipment. Unlisted sizes of aluminum tubing available in full 12' lengths. No charge for cutting to 8' or less for UPS. Longer lengths shipped via truck. Ordering tubing/bar by the foot. Add a dash number after part number to indicate length of tubing required. Ex: 3 ft required add -3, 03-00100-3.

O.D. (In.)	I.D. (In.)	Wall Thickness	Wt./Ft. (Lb.)	Part No.	Price/Ft
3/16	.118	.035		03-00012	
1/4	.180	.035	.0281	03-35300	
1/4	.152	.049	.036	03-00014	
5/16	.215	.049	.0423	03-35350	
5/16	.197	.058	.0561	03-35400	
	.305	.035	.0449	03-35500	
2/0	.259	.058	.0694	03-35600	
3/8	.245	.065	.0755	03-35700	
	.209	.083	.0895	03-35750	
7/16	.308	.065	.090	03-35775	
	.444	.028	.0496	03-35795	
	.430	.035	.0612	03-35800	
1/0	.402	.049	.0816	03-35850	
1/2	.384	.058	.0962	03-35900	
	.370	.065	.1040	03-35950	
	.260	.120	.168	03-35975	
	.555	.035	.0775	03-36000	
- (-	.527	.049	.1060	03-36010	
5/8	.509	.058	.1227	03-36050	
	.495	.065	.1367	03-36100	
	.680	.035	.093	03-36150	
- /-	.652	.000	.1288	03-36200	
3/4	.634	.058	.1506	03-36300	
	.620	.065	.164	03-36350	
	.805	.035	.104	03-36375	
	.003	.000	.150	03-36380	
7/8	.759	.058	.1777	03-36400	
1/0	.745	.065	.1983	03-36450	
	.635	.120	.3350	03-36500	
	.930	.035	.1275	03-36600	
	.902	.035	.1754	03-36610	
	.902		.2060		
		.058		03-36700	
1	.870	.065	.2295	03-36800	
	.830	.083	.281	03-36850	
	.810	.095	.3244	03-36900	
	.750	.125	.404	03-36950	
	.500	.250	.693	03-36975	
4.4/0	1.027	.049	.185	03-36980	
1-1/8	1.009	.058	.2321	03-37000	
	.875	.125	.4712	03-37100	
	1.180	.035	.1601	03-37200	
	1.152	.049	.2213	03-37210	
1-1/4	1.134	.058	.2601	03-37300	
	1.120	.065	.2907	03-37400	
	1.010	.120	.510	03-37450*	
1-3/8	1.259	.058	.2865	03-37500	
	1.430	.035	.1928	03-37550	
	1.402	.049	.2683	03-37610	
1-1/2	1.384	.058	.3137	03-37710	
	1.370	.065	.3519	03-37800	
	1.260	.125	.635	03-37850	
1-5/8	1.509	.058	.3409	03-37900	
	1.680	.035	.2264	03-37910	
1-3/4	1.652	.049	.3142	03-37925	
1-3/4	1.634	.058	.3703	03-37950	
	1.584	.083	.5202	03-37975	
1-7/8	1.759	.058	.3954	03-38000	
	1.902	.049	.3601	03-38100	
2	1.884	.058	.4225	03-38200	
	1.870	.065	.4743	03-38300	
	2.152	.049	.406	03-38307	
0.1/4	2.120	.065	.5328	03-38308	
2-1/4	1.959	.083	.824	03-38309	
	2.000	.125	.999	03-38310	
	2.430	.035	.3254	03-38315	
2-1/2	2.402	.049	.444	03-38318	
	2.370	.065	.5803	03-38320	
			.3891	03-38330	
-	2,930				
3	2.930 2.870	<u>.035</u> .065	.7140	03-38340	

ROUND ALUMINUM TUBING 6061T6

* This item will be supplied as either .120 or .125.

3003-0 VERSATUBE

Soft aluminum tubing for instrument air and vacuum lines, fuel and oil lines, and primer lines.

	0.D. (In.)	Wall Thickness	Max. Working Pressure* (PSI)	Part No.	Price Per Ft.
	1/8	.025	1820	03-40200	
	3/16	.028	880	03-40300	
	1/4	.032	795	03-40400	
*Safety factor	5/16	.035	630	03-40500	
of 2 20%	3/8	.035	520	03-40600	
discount for full 50' coils of	1/2	.035	390	03-40700	
Versatube	5/8	.035	305	03-40800	

IF MFG TEST REPORTS ARE REQUIRED THERE IS A --- CHARGE PER ORDER. PLEASE INDICATE AT TIME OF ORDER

Prices Subject to Change without Notice - Valid as of June 1, 2025. WWW.AIRCRAFTSPRUCE.COM

MINUM ROD В



ROUND ALUMINUM ROD 2024T3/2024T4

Dia. (In.)	Wt./Ft. (Lb.)	Part No.	Price/Ft.
3/16	.033	03-41400	
1/4	.059	03-41500	
5/16	.092	03-41600	
3/8	.132	03-41700	
7/16	.1822	03-41750	
1/2	.235	03-41800	
5/8	.368	03-41900	
3/4	.529	03-42000	
7/8	.721	03-42100	
1	.941	03-42200	
1-1/8	1.205	03-42250	
1-1/4	1.47	03-42300	
1-3/8	1.800	03-42350	
1-1/2	2.12	03-42400	
2	3.76	03-42500	
2-1/2	5.88	03-42600	

No charge for cutting to 8 ft. or less for UPS shipment. Over 8 ft. shipped via truck. Special sizes available. Full length (12 foot) only. If ordering only T3 or T4, please call 877-477-7823



ALUMINUM SQUARE & RECTANGLE BAR 2024T3/2024T4

Size (In.)	Wt./Ft. (Lb.)	Part No.	Price/Ft.
1/8 x 1	.150	03-42700	
1/8 x 2	.300	03-42900	
3/16 x 3/4	.169	03-43100	
1/4 x 1/2	.147	03-00104	
1/4 x 3/4	.150	03-00199	
1/4 x 1	.300	03-43400	
1/4 x 1-1/4	.375	03-43500	
1/4 x 1-1/2	.450	03-43600	
1/4 x 2	.599	03-43700	
1/4 x 3	.900	03-43800	
1/4 x4	1.99	03-43850	
3/8 x 1	.4545	03-43875	
3/8 x 1-1/4	.562	03-43900	
3/8 x 1-1/2	.6818	03-43950	
3/8 x 2	.674	03-44000	
3/8 x 3	1.35	03-44100	
3/8 x 6	2.7	03-44200	
1/2 x 1/2	.3030	03-44250	
1/2 x 5/8	.375	03-44300	
1/2 x 1	.599	03-44400	
1/2 x 1-1/4	.7575	03-44450	
1/2 x 2	1.20	03-44500	
1/2 x 2-1/2	1.50	03-44600	
5/8 x 5/8	.468	03-44700	
5/8 x 1	.7575	03-44850	
3/4 x 3/4	.674	03-44900	
3/4 x 1-1/2	1.35	03-45000	
3/4 x 1-3/4	1.59	03-45550	
3/4 x 2	1.80	03-45100	
3/4 x 2-1/2	2.25	03-45200	
1 x 1	1.20	03-45300	
1 x 2	2.424	03-45450	
1 x 2-1/2	3.030	03-45475	
1/2 x 6	4.002	03-56000	

Unlisted sizes of aluminum rod and bar available in full 12 ft. lengths. Unlisted sizes of aluminum rod and bar available in full 12 ft. lengths. No charge for cutting to 8 ft. or less for UPS. Longer lengths shipped via truck. If ordering only T3 or T4, please call 877-477-7823 Ordering tubing/bar by the foot. Add a dash number after part no. to indicate length of tubing req. Example: 3 ft required add -3, 03-00100-3.



ALUMINUM ANGLE Extruded aluminum angle is produced by forcing a heated aluminum billet through a die of the proper shape by means of a hydraulic press. Our 90° alu-minum extrusions have fillet radius as illustrated.

Туре	Size (In.) Wt./Ft. "A" x "B" x "T"	Part No.	Wt. Per Ft. (Lb.)	Price/Ft.
2024T3	1/2 x 1/2 x 1/16	03-46800	.070	
2024T3	5/8 x 5/8 x 1/16	03-46900	.095	
2024T3	3/4 x 3/4 x 1/16	03-47000	.109	
2024T3	7/8 x 7/8 x 1/8	03-47100	.238	
2024T3	1 x 1 x 1/16	03-47200	.154	
2024T3	1 x 1 x 1/8	03-47300	.282	
2024T3	1 x 1-1/2 x 1/8	03-47400	.354	
2024T3	1-1/2 x 1-1/2 x 1/16	03-47500	.229	
2024T3	1-1/2 x 1-1/2 x 1/8	03-47600	.432	
2024T3	2 x 2 x 1/8	03-47625	.581	

Туре	Size (In.) Wt./Ft. "A" x "B" x "T"	Part No.	Wt. Per Ft. (Lb.)	Price/Ft.
6061T6	3/4 x 3/4 x 1/16	03-00185	.106	
6061T6	3/4 x 3/4 x 1/8	03-47900	.200	
6061T6	1 x 1 x 1/16	03-00187	.150	
6061T6	1 x 1 x 1/8	03-48000	.270	
6061T6	1-1/4 x 1-1/4 x 1/8	03-00189	.350	
6061T6	1-1/2 x 1-1/4 x 1/8	03-48075	.390	
6061T6	1-1/2 x 1-1/2 x 1/8	03-48100	.430	
6061T6	1-1/2 x 1-1/2 x 3/16	03-48200	.625	
6061T6	1-1/2 x 1-1/2 x 1/4	03-48250	.831	
6061T6	1-1/2 x 2 x 1/8	03-48300	.506	
6061T6	1-3/4 x 1-3/4 x 1/8	03-48350	.490	
6061T6	2 x 2 x 1/8	03-48400	.470	
6061T6	2 x 2 x 3/16	03-48450	.850	
6061T6	2 x 2 x 1/4	03-48500	1.110	
6061T6	2 x 3 x 1/4	03-48550	1.400	
6061T6	2 x 2-1/2 x 1/4	03-48600	1.250	
6061T6	2-1/2 x 2-1/2 x 3/16	03-00007	.970	
6061T6	2-1/2 x 2-1/2 x 1/8	03-48650	.720	
6061T6	4 x 4 x 1/4	03-48680	2.28	

Standard lengths: 2024-12' and 20', 6061-25', 6063-16' (no fillet). No charge for cutting to 8 ft. or less for UPS. Many unlisted sizes available. Request quotation.

ALUMINUM ROUND, SQUARE AND RECTANGLE BARS, 6061T6

0: (1		Devit Nie	Duine /Et
Size (In.)	Wt./Ft. (Lb.)	Part No.	Price/Ft.
3/16 Dia. Round	.032	03-45500	
1/4	.058	03-45600	
5/16	.090	03-45700	
3/8	.130	03-45800	
1/2	.231	03-45900	
5/8	.359	03-45920	
3/4	.519	03-46000	
7/8	.787	03-46010	
1	.923	03-46100	
1-1/4	1.436	03-45940	
1-1/2	2.068	03-45960	
1-3/8	1.734	03-46110	
1-5/8	2.44	03-46200	
1/4 x 1 Rect.	.294	03-46300	
3/4 x 3/4 Sq.	.660	03-46400	
3/16" x 1-1/4"	.275	03-46250	
1/4" x 1-1/2"	.441	03-46350	
1/4" x 2"	.675	03-00005	
1/4" x 3"	.881	03-46360	
1/2" x 3/4"	.441	03-46370	
1/2" x 1"	.587	03-46375	
1/2" x 1-1/4"	.734	03-46380	
1/2" x 2"	1.170	03-46390	
1" x 1"	1.170	03-46450	
1" x 1-1/4"	1.270	03-00006	
1" x 2-1/2"	1.790	03-00142	

IF MFG TEST REPORTS ARE REQUIRED THERE IS A --- CHARGE PER ORDER. PLEASE INDICATE AT TIME OF ORDER

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JMINUM HINGE – STRINGE

PIANO HINGE

MS20257P (supersedes AN257) hinge consists of two aluminum half hinges which mate and are held together by a hinge pin. Anodized finish. MS20257C is similar to MS20257P except made in stainless steel.



MS20001P aluminum hinge is extruded. The closed hinge loops cannot be pulled apart. Furnished with hinge pin. Anodized finish.

Part No.*		Thickness	Price/L	ength
Part No."	Open Width	Thickness	3 Ft.*	6 Ft.*
MS20257P1	3/4"	.032"		
MS20257P2	1-1/16"	.040"		
MS20257P3	1-1/4"	.040"		
MS20257P4	1-1/2"	.040"		
MS20257P5	2"	.051"		
MS20001P3	1-1/4"	.056"		
MS20001P4	1-1/2"	.056"		
MS20001P5	1-3/4"	.056"		
MS20001P6	2"	.056"		
MS20257C1	3/4"	.031		
MS20257C2	1-1/16"	.037		
MS20257C3	1-1/4"	.050		
MS20257C4	1-1/2"	.062		
MS20257C5	2"	.062		

* Add "-3" to part number for 3 ft. pc. and "-6" to part number for 6 ft. pc. **Example:** MS20001P6-3 is 3 ft. pc. of MS20001P6 hinge.

MS20253-P2-7200 HINGE PIN **STAINLESS STEEL**

CAD Plated 302 Stainless Steel sold in 3ft or 6ft lengths. Perfect for use with Piano Hinges above. 0.089" Diameter. Material: Corrosion-Resistant Steel, QQ-W-423, Form, 1, Condition B,(straightened and cut lengths), Comp FS 302, FS 304, or FS 316.

3 Foot......P/N 03-49000-3.....-------6 Foot......P/N 03-49000-6......

BARGAIN BAG OF ALUMINUM TUBING Approximately 20 ft. Assorted sizes of 2024 and

6061 aluminum tubing, angle, rod, and bar P/Ň 03-40100

6063T52 U CHANNEL

2	3/4"x 3/4"x1/8"	P/N	03-38950	/ft.
	1"x1"x1/8"	P/N	03-39050	/ft.
	1-1/4"x1-1/4"x1/8"	P/N	03-39150	/ft.



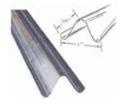
TRAILING EDGE Fabricated of .025 aluminum 3003H14 to size illustrated. Wt.12oz. per 10ft.

length. Shipped via truck.

10 Ft. LengthP/N 03-48900

RECTANGULAR **ALUMINUM STRINGERS** Rectangular stringers, 5/8" x 5/16" x .032" 3003H14 aluminum. Wt. 11 oz./12ft. length. Shipped via truck.

12 Ft. Length......P/N 03-48800



"HAT" SECTION ALUMINUM STRINGERS

Fabricated from .020 2024T3 aluminum. Wt. 5 oz. per 8-ft. length. May be spliced to form longer stringers. 8-Ft. Length P/N 03-46500

WELDING ROD FOR ALUMINUM



ER4043 - A versatile alloy well suited for welding 6061T-6, 5005, and 6063. Extremely ductile. 1/16" dia. P/N 03-27520....... ---/lb.

3/32" dia. P/N 03-27525....... ---/lb.

ER5356 - Combination of strength and ductility for welding 5083, 5086, and 7000 series. Deposit can be andized after welding. 1/16" dia. P/N 03-27530........

UTP A-65 - A multi alloy wire for a wide range of base materials including stainless steel, low alloy high strength steel and especially outstanding for dissimilar metals with over 120,000 psi tensile strength and 25% elongation. Machinable.

BRAZING ALLOYS

UTP 1M - High strength, machinable torch rod for steel, brass, bronze and other copper alloys. Easy to apply, high strength, and versatile all purpose brazing rod.

1/8" diaP/N 03-27570 ---/lb.

MAINTENANCE

UTP 612 - An all position mild steel coated electrode for arc welding. Operates on AC or DC current and can be welded by even the most inexperienced welder. 72,000 psi tensile strength, moisture resistant and conveniently packaged in 10 lb containers.

COPPER TUBING



O.D. (In.)	Wall Thickness	Part No.	Price/Ft.
1/8	.030	03-40900	
1/4	.030	03-41000	
5/16	.032	03-41100	
3/8	.032	03-41200	
1/2	.032	03-41250	

Seamless copper tubing for primer, fuel and oil pressure lines.

COPPER BUS BAR

	Length (ft.)	Part Number	Price
	1	11-40890-1	
	2	11-40890-2	
	3	11-40890-3	
1	4	11-40890-4	
	5	11-40890-5	
/2" wide	6	11-40890-6	



.125 X 1

2024T3511 2 X 1-3/4 T ALUMINUM 2024T3511 2" X 1-3/4" T extruded aluminum. Price per foot. P/N 03-00093-

rices Subject to Change without Notice - Valid as of June 1, 2025. WWW.AIRCRAFTSPRUCE.COM

.IC – LEXAN – NYLO

ACRYLIC SHEET



ME

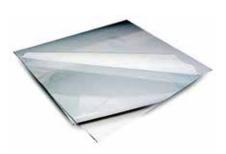
American made acrylic sheet Grade C to Specification LP-391 is unshrunk. When heated to forming temperature of 220-250°F, it will shrink about 2.2% in length and width and will increase about 4% in thickness. When heated to a pliable state it can be drilled, sawed and machined. It has excellent resistance to weathering. It is less than half as heavy as glass and has good impact resistance. .060° or .080° thick-ness is generally used for side windows and .118° for windshields. Both sides are paper covered for protection. Sheet size: 48"x96". Sold in 2'x2' increments only. Order by part number (see table)

Size	Thickness Inch	Weight Lb./Sq.Ft.	Part No.***	Price/Sq. Ft.
2x2	.060 Clear	.37	03-49802	
2x2	.080 Clear	.49	03-49902	
2x2	.118 Clear	.62	03-50002	
2x2	.118 Tinted*	.77	03-50102	
2x2	.118 Tinted**	.77	03-50202	

Smoke tint

** #2111 Green tint

Order by basic part number and add last two digits accord-ing to dimensions of piece, as follows: 2'x4' (8 Sq.Ft.) add "04"; 4'x4'; (16 Sq.Ft.), add "08"; 4'x8' (32 Sq.Ft.), add "10". Example: 2'x4 .080 Clear is P/N 03-49904.



LEXAN

American made Kirex polycarbonate sheet (an equivalent to G.E. Lexan) is a very strong plastic which is guaranteed by manufacturer against breakage when used as a window for a 3 year period. It will scratch like Plexiglas, but will not break. Clear, masked both sides. Sheet size: 48"x96". Sold in 2'x2' increments only. Order by part number (see table)

Size	Thickness Inch	Weight Lb./Sq.Ft.	Part No.***	Price/Sq. Ft.
2x2	.060	.38	03-50302	
2x2	.093	.59	03-50502	
2x2	0.118	.78	03-50602	

* Order by basic part number and add last two digits according to dimensions of piece, as follows: 2'x4' (8 Sq.Ft.) add "04"; 4'x4' (16 Sq.Ft.), add "08"; 4'x8' (32 Sq.Ft.), add "10". Example: 4'x4' of .093 is P/N 03-50508.



CLEAR CELLULOSE ACETATE SHEET

May be used to make inspection rings, grommets and shapes which will adhere to fabric with dope or fabric cement. Sheet size: 20" x 50". Thickness: .030". P/N 03-50700..... ---/Sheet

GRAPHLITE CARBON FIBER ROD



Prepreg tape has an inherent waviness which can reduce the strength and stiffness of a laminate. Graphlite rod eliminates fiber waviness and unlike tape, it can be placed along any curved surface and retain fiber alignment. Graphlite can be used in layers to form building blocks for stiffeners, spar caps, longerons and other axially loaded parts. Components made with Graphlite offer tension strength on the lower wing surface and compression strength on the upper surface that are almost

equal. In addition, a single layer of rods is as thick as 10 layers of tape, meaning fewer passes and less effort. Graphlite rods increase compression strength, reduce fabrication costs by 50%, can be laid on compound curves, and require no special storage. Available in two rod types: standard module (SM) which is 33-34 MSI and intermediate module which is 42 msi. Sold by the roll. Typical light aircraft requires minimum of 1000 ft. Graphlite rod.

Rod Type	Rod Diameter	Tensile Strength	Part Number	Price per roll
IM	0.067	503	03-50706	/100 ft.
SM	0.125	503	03-50707	/12 ft.

NYLON

Nylon, a polyimide resin, is a light yet tough thermoplastic material. Its density is approximately .041 lb./cu.in. It is a tough, resilient material with a low coefficient of frictionabrasion tests show that Nylon loses less material than do many metals, other plastics, and hard rubber. It can deform under load, then return to its original shape. Nylon retains its impact strength over a wide range of temperatures (-60° to 400°F). It has good resistance to most chemicals. It can be easily machined on most standard metal working machines, power hacksaws, band saws, or circular saws. It is desirable to use a saw with a coarse tooth blade.

NYLON PLATE

	_	_					
Thickness (Inch) (Lbs.)	Wt. per Sq. Ft.	Part Number	Price/ Sq. Ft.*				
1/4	I.54	03-51200					
1/2	3.07	03-51300					
3/4	4.61	03-51400					
1	6.15	03-51500					
* SOLD BY THE SQUARE FOOT (12" X 12") Smaller pieces are available. Order as follows: 6" x 6" = 0.25 6" x 12" = 0.50 12" x 12" = 1 12" x 24" = 2 12" x 36" = 3							

NYLON ROUND ROD



Diameter (In.)	Part No.	Price/ Ft.		
1/8	03-51600			
1/2	03-51800			
3/4	03-51900			
1	03-52000			
1-1/4	03-52100			
1-1/2	03-52200			
2	03-52300			

Furnish cutting instructions for UPS shipment.

IC – ACRY

HIGH PRESSURE LAMINATED PHENOLIC

Commonly called "Micarta", a trademark of Westinghouse. Laminated sheets, tube and rods are produced in many grades, sizes and colors. These laminates combine a base material - canvas, linen, paper, glass cloth or Nylon cloth, with a resin- phenolic, melamine, epoxy or silicone, under high heat and pressure to produce a new material with specific characteristics. These characteristics vary with the grade and its use.



GRADE L (LINEN BASE) PHENOLIC SHEET

Used for precision machining and high strength applications. Sheet Size: 36" x 48". Sold in 6" x 6", 6" x 12", 12" x 12", etc. pieces only.

Thickness (In.)	Wt. /Sq . Ft(Lbs.)	Part No.	Price. Per Sq. Ft.
1/16	.422	03-52400	
1/8	. 844	03-52500	
3/16	1.349	03-00111	
1/4	1.853	03-52600	
3/8	2.772	03-52700	
1/2	3.685	03-52800	
3/4	5.495	03-52900	

GRADE L (LINEN BASE) PHENÒLIC ROD

Used to provide high-strength close-tolerance bolt holes in wooden spars. Cut rod to spar thickness, drill and ream for proper bolt fit. Drill hole in spar for slip fit of rod, then bond in spar with epoxy cement. Produced in 4 ft. lengths.

5/8" diaP/N 03-53100**--- /ft.** 3/4" diaP/N 03-53200/ft.

GRADE XXX (PAPER BASE) PHENOLIC TUBING

A Stanley	O.D. (In.)	I.D. (In.)	Wall (In.)	Part No.	Price Per Ft.
	3/8	1/4	1/16	03-53300	-
	5/8	1/2	1/16	03-53500	
	3/4	5/8	1/16	03-53600	
	7/8	3/4	1/16	03-53700	

Other sizes and wall thicknesses available at comparable prices

CLEAR EXTRUDED **ACRYLIC TUBING**

0	O.D. (In.)	I.D. (In.)	Wall (In.)	Part No.	Price Per Ft.
	3/8	1/8	.125	03-53800	
	1/2	1/4	.125	03-53900	
	5/8	3/8	.125	03-54000	



CLEAR PVC PIPE

Clear, rigid Schedule 40 PVC pipe for sight gauges. Used in Quickie as fuel level gauge. Excellent resistance to gasoline. Nominal 1/4" pipe size (0.54"



WELD-ON ACRYLIC CEMENT Fast Set - Clear, water thin solvent cement.

P/N 03-00107.....



For easy removal of stubborn masking paper from plastic sheets. This worksaver also removes adhesive residue. Quantity Discount - 15% on 10 units on this page



DFI RIN[®] ROD

Delrin® is a thermoplastic acetal resin. The most important attributes of Delrin® are high mechanical strength and rigidity, fatigue endurance and high resistance to moisture, gasoline and solvents. This product contains Delrin® resin. Delrin® is a

registered trademark of E. I. du Pont de Nemours & Co. Color: Natural. Sold by the foot.

Diameter	Part No.	Price / Ft.	Diameter	Part No.	Price/Ft.
1/8"	02-52018		3/4"	02-52034	
3/16"	02-52316		7/8"	02-52078	
1/4"	02-52014		1"	02-52001	
5/16"	02-52516		1-1/8"	02-52118	
3/8"	02-52038		1-1/4"	02-52114	
7/16"	02-52716		1-3/8"	02-52138	
1/2"	02-52012		1-1/2"	02-52112	
9/16"	02-52916		1-3/4"	02-52134	
5/8"	02-52058		2‴	02-52002	



ACRYLIC CUTTING TOOL

This knife features a retractable blade and is used for the "score-and-snap" method of cutting acrylic. Scoreand-snap works well for making straight cuts in thinner sheets (1/8" and thinner). It is not recommend this method for sheets thicker than 1/8" due to the difficulty of getting a clean break; a saw will yield better results for heavy sheets. Complete with instructions.

P/N 03-54200 ---

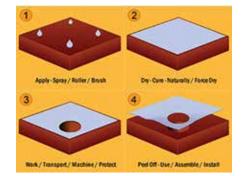
ACRYLIC DRILL BITS



Specially ground point, 60° included tip angle, 0° rake angle, shoulder relieved, for drilling Acrylic to prevent fractures, chipping or cracking. With instructions.

Drill Size	Part No.	Price Ea.	Drill Size	Part No.	Price Ea.
1/8"	12-05489		5/16"	12-05493	
5/32"	12-05490		3/8"	12-05494	
3/16"	12-05491		7/16"	12-05495	
1/4"	12-05492		1/2"	12-05496	

DISCOAT 4220 PLEXIGLASS PROTECTOR



General Chemical's Disccoat 4220 is a CLEAR water resistant; water based peelable temporary protective coating for Aircraft windshields & windows which provides a long lasting durable protective layer that protects form scratches and oxidation. Used for protecting canopies and windshields during construction. Discoat 4220 air dries quickly, leaving a tough, yet flexible coating that is easily removed and requires no other additional step. 4220 represents the ultimate in water-based removable coating technology. It is stabilized against brittleness and is not softened or penetrated by most water-based compounds.

4220 is impregnated with transparent blue dye for easy visual inspection as well as identification and is non-staining and stable to 100 degrees Celsius. Approximate coverage: 35 sq. ft. per quart. May be applied by spray or brush. Minimum of 4 coats recommended for best results. G

QuartP/N 03-00158	
GallonP/N 03-00159	

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