

Weight Calculations

Sheet, Plate, Flat Bar

$length\ (inches) \times width\ (inches) \times gauge\ (inches) \times density\ lb/in^3 = lbs\ per\ piece$

Round Bar

$R^2\ (inches) \times \pi \times length\ (inches) \times density\ lb/in^3 = lbs\ per\ piece$

Key: R = radius
 $\pi = pi$

Conversion Charts

inches to mm	multiply by 25.4
mm to inches	divide by 25.4
meters to inches	multiply by 39.37
feet to meters	divide by 0.3048
meters to feet	multiply by 3.281
kgs to lbs	multiply by 2.2046
lbs to kgs	divide by 2.2046

Metals & Alloys

Ti

Titanium

Ni

Nickel

SS

Stainless

Co

Cobalt

CCM

Cobalt
Chrome Moly

ALY

Alloy Steels

Metal Density lb/in³

Titanium	Titanium	0.163	
Cobalt	188	0.324	
	L605	0.330	
Nickel	600	0.304	
	625	0.305	
	718	0.296	
	800	0.297	
	825	0.294	
	Alloy X	0.297	
	X750	0.298	
	C276	0.321	
	Stainless Steel	301 ANN	0.285
		302/304S/304L	0.290
316/316L		0.290	
321		0.286	
347		0.288	
410		0.276	
15-5		0.280	
15-7		0.282	
17-4PH		0.280	
17-7PH		0.282	
A286	0.286		



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Approvals

- Airbus
- Boeing
- Bombardier
- Leonardo
- Rolls Royce
- ITP
- GE
- Pratt & Whitney
- & many others

GRADE	SHEET/COIL	PLATE	BAR
GRADE 2	AMS 4902 AMS-T-9046B CP 3 BS TA2 ASTM B265 T40 WS 3.7034 ASTM F 67	AMS 4902 AMS-T-9046B CP 3 ASTM B265	ASTM F67 ASTM B348
GRADE 3	AMS 4900 AMS-T-9046B CP 2 ASTM B265 T50 WS 3.7054	AMS 4900 AMS-T-9046B CP 2 ASTM B265	ASTM B348
GRADE 4	AMS 4901 AMS-T-9046B CP 1 BS 3TA6 ASTM B265 T60 WS 3.7064	AMS 4901 AMS-T-9046B CP 1 ASTM F67 ASTM B265	AMS 4921 MIL-T-9047G CP-70 ASTM B348 BS 3TA7
TI-6AL-4V	AMS 4911 AMS-T-9046B AB-1 BS TA10 ASTM B265 ABS 5326A AIMS 03-18-003 ABS 5326C AIMS 03-18-004 WS 3.7164	AMS 4911 AMS-T-9046B AB-1 BS TA56 ASTM B265 ABS 5125A AIMS 03-18-001 ABS 5125B AIMS 03-18-006 ABS 5125C AIMS 03-18-007 WS 3.7164	AMS 4928 AMS 4965 AMS 4967 AMS 6931 AMS-T-9047 AB-1 ASTM B348 WS 3.7164
TI-6AL-4V ELI	AMS 4907 ASTM B265 GR 23 ASTM F136	AMS 4907 ASTM B265 GR 23 ASTM F136	AMS 4930 ASTM F136 ASTM B346 GR 23 MIL-T-9047 TI 6-4ELI



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