Standard Alloys

HIGH PERFORMANCE BRASS

Quality and consistency allows customers to produce more components per hour, maintain tighter tolerances, and reduce costs through longer tool life.

Advantages:

- Excellent machinability
- Good corrosion resistance
- High productivity, low cost alloy
- 100% recyclable
- Proven performance for machining and thread rolling
- Longer tool life
- Greatest overall value

C36000

APPLICATION:	FREE CUTTING-MACHINING
ASTM:	B16
LENGTHS:	10 TO 16 FEET
BUNDLE WEIGHTS:	1,000 – 4,000 LBS.

C37700

APPLICATION:	FORGING-MACHINING BRASS
ASTM:	B981
LENGTHS:	10 TO 16 FEET
BUNDLE WEIGHTS:	1,000 – 4,000 LBS.

Chemistry Composition

Rod Alloy	CU	Pb	Fe	Zn
C36000	60.0 - 63.0%	2.5 - 3.0%	0.35% max	Remainder
C37700	58.0 - 61.0%	1.5 - 2.5%	0.30% max	Remainder

C36000 & C37700 Sizes/shapes

Round
0.250" - 4.50"

Hex / RC Hex
0.250" - 2.50"

Square
0.250" - 2.00"

Shapes
Cross section up to 2.50"
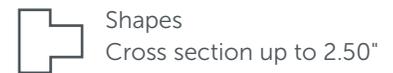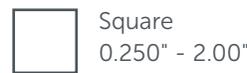
C36000 Diameter/tolerances +/−

Diameter	Round	Hexagonal, Octagonal
>0.250" - 0.500"	0.0015"	0.003"
>0.500" - 1.000"	0.002"	0.004"
>1.000" - 2.000"	0.0025"	0.005"
>2.000"	0.15%	0.30%

C37700 Diameter/tolerances +/−

Diameter	Round	Hexagonal, Octagonal
>0.250" - 0.500"	0.002"	0.004"
>0.500" - 1.000"	0.003"	0.005"
>1.000" - 2.000"	0.004"	0.006"
>2.000"	0.20%	0.40%

C36000 Minimum Mechanical Properties

Diameter (inch)	Tensile (ksi)	Yield (ksi)	Elongation (%)	Hardness RD (Rb)	Hardness HX/OC (Rb)
≤0.500"	57	25	7	—	—
>0.500" - 1.000"	55	25	10	60 - 80	55 - 80
>1.000" - 2.000"	50	20	15	55 - 75	45 - 80
>2.000" - 3.000"	45	15	20	45 - 70	40 - 65
>3.000" - 4.000"	45	15	20	40 - 65	35 - 60
>4.000"	40	15	20	25 min	25 min

C37700 Minimum Mechanical Properties

Diameter (inch)	Tensile (ksi)	Yield (ksi)	Elongation (%)
>0.250" - 0.500"	63	28	10
>0.500" - 1.000"	55	26	12
>1.000" - 2.000"	48	24	20
>2.000"	45	20	25

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Your Leading Source
For Brass Solutions

For More Information

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