



BRASS HEX & ROUND BARS

Product Catalog

Brass Hex Bars

Brass Hex Bars

A brass hex bar is a six-sided metal bar made from brass alloy. It is widely used in various industrial and commercial applications due to its combination of strength, corrosion resistance, and attractive appearance. The hexagonal shape provides easy gripping and handling during machining processes.

Features

- High corrosion resistance
- Excellent machinability
- Good strength and durability
- High thermal and electrical conductivity
- Non-magnetic
- Attractive aesthetic appearance
- Good workability
- Versatility in applications
- Recyclable material
- Optimized chemical composition for enhanced properties



Brass Hex Bars Sizes

Size	Kg per Mtr
3/8"	0.667831325
1/2"	1.187255690
5/8"	1.855087015
3/4"	2.671325302
7/8"	3.635970550
1"	4.749022760
1 1/4"	7.420348062
1 1/2"	10.685301210
1 7/8"	16.6957831
2"	18.996091



Brass Round Bars

Brass Round Bars

A brass round bar is a cylindrical rod made from brass alloy, which typically consists of copper and zinc. Brass round bars are known for their excellent machinability, high corrosion resistance, and attractive yellow-gold appearance. These bars are available in various diameters and lengths, making them suitable for a wide range of industrial, commercial, and decorative applications.

Features

- High corrosion resistance
- Excellent machinability
- Good strength and durability
- High thermal and electrical conductivity
- Non-magnetic
- Attractive aesthetic appearance
- Good workability
- Versatility in applications
- Recyclable material
- Optimized chemical composition for enhanced properties



Brass Round Bars Sizes

Size	Kg per Mtr
10mm	0.667600
12mm	0.961344
16mm	1.709056
19mm	2.410036
22mm	3.231184
25mm	4.172500
30mm	6.008400
32mm	6.836224
38mm	9.640144
40mm	10.681600
42mm	11.776464
45mm	13.518900
50mm	16.690000
60mm	24.033600
65mm	28.206100
75mm	37.552500

Size	Kg per Mtr
80mm	42.7264
85mm	48.2341
90mm	54.0756
95mm	60.2509
100mm	66.76
120mm	96.1344



Cz121 Grade Material Technical Data Sheet

Free Machining Brass

Service. Quality. Value.

Applications

- All types of machined components
- Fasteners
- Extruded sections
- Window frames
- Plug pins
- Switch blocks

Alloy Attributes

- Good corrosion resistance
- Easily soldered or brazed
- Good strength
- Highest machinability of any copper alloy

Product Description

CZ121 offers the highest possible machinability of any copper alloy. This alloy is a free machining brass with a 3% lead content - this addition of lead is finely dispersed throughout the materials microstructure which acts as both a lubricant and chip breaker. This results in giving the alloy its free machining characteristics. With a machinability rating of 100%, CZ121 is the standard by which all other copper based alloys are rated. The alloy also offers good corrosion resistance and strength.

Related Material Specifications

- C38500
- CW614N
- BS2874
- 2.0401
- NF A51-105
- CuZn39Pb3
- CuZn40Pb3 (FR)

Corrosion Resistance

High resistance to corrosion.

Availability

Bar, hexagon, flat bar, square bar and hollow bar

Weldability

Soldering	- Excellent
Brazing	- Good
Oxy-acetylene welding	- Not Recommended
Gas-shielded arc welding	- Not Recommended
Resistance welding: Spot & Seam	- Not Recommended
Butt	

Chemical Composition (Weight %)

Weight (%)	Cu	Pb	Fe	Zn	Total Imps
min.	56.5	2.5	0.0	Rem	0.0
max.	58.5	3.5	0.3	Rem	0.7 max

Mechanical Properties

Tensile Strength (MPa)	360 - 580
Elongation %	15 - 25

Technical Assistance

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.