

DESCRIPTION

Brass with zinc as the main add elements of copper alloy, has a beautiful yellow, generally referred to as brass. Copper zinc simple binary alloy called ordinary brass or brass. Zinc in 36 ~ 42% between the brass alloy composed and solid solution, the most commonly used are zinc 40% of brass. In order to improve the performance of the common brass, often add other elements, such as Mn some time used as de oxidant, its small quantity have a grain refining effect.

CHEMICAL COMPOSITION

Elements	Min (%)	Max (%)
Cu	57.00	59.00
Pb	-	0.80
Al	-	0.10
Fe	-	1.50
Mn	1.00	2.50
Ni	-	0.10
Sn	-	0.50
Si	-	0.10
Total Others	-	0.5
Zn	Remainder	

MECHANICAL PROPERTIES ACCORDING TO DIN 17672 (AS PER TEMPER F44)

Range (mm)	From	To	UTS Min (N/mm ²)	PS Min (N/mm ²)	Elo Min (%)	Hardness Min (HB)	Hardness Max
Round (Dia)	10	80	440	170	20	120	-
Hex (a/F)	9	70	440	170	20	120	-
Square (A/F)	9	60	440	170	20	120	-
Rectangle (Thickness)	5	30	440	170	20	120	-



PHYSICAL PROPERTIES

Density	8.45 g/cm ³
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FABRICATION PROPERTIES

Workability in cold conditions.
Good corrosion resistance.
For machine parts when substantial strength and corrosion resistance are required.

TYPICAL USES

- > Fittings
- > Valves
- > Bolts and nuts
- > In a refrigeration and air conditioning

