

## Phosphor Bronze Casting Chemical Composition

Copper Alloys	CU	SN	PB	ZN	FE	NI	Р	AL	S SI	SB	Impurities
Standard BS: 1400, Grade PB 1	Rem.	10 Min	0.25	0.05	0.10	0.10	0.5 Min	0.01	0.02	-	0.60
Standard BS: 1400, Grade PB 2	Rem.	11 - 13	0.50	0.30	0.15	0.50	0.15 Min	0.01	0.02	•	0.20
Standard BS: 1400, Grade PB 4	Rem.	9.5 Min	0.75	0.50	Ub.	0.50	0.4 Min	•	-	•	0.50
Standard IS: 28-1985, Grade 1	Rem.	6-8	0.25	0.50	0.30	0.70	0.3 - 0.5	0.01	0.02	0.10	1.20
Standard IS: 28-1985, Grade 2	Rem.	10 Min	0.25	0.05	0.10	0.10	0.5 Min	0.01	0.02	-	0.60
Standard IS: 28-1985, Grade 3	Rem.	6.5 - 8.5	2 - 5	2.0	•	1.0	0.3 Min	•	-	-	0.50
Standard IS: 28-1985, Grade 4	Rem.	9 - 11	0.25	0.05	-	0.25	0.15	•	-	-	0.80
Standard IS: 28-1985, Grade 5	Rem.	11 - 13.1	0.50	0.30	0.15	0.50	0.15 Min	0.01	0.20	-	0.20

## **Phosphor Bronze Casting Mechanical Properties**

Copper Alloys	Tensile Strength (Min.)	Elongation % (Min.)	Brinell Hardness (Min.)	
Standard BS: 1400, Grade – PB	220 Mpa.	3%	70 BHN.	
Standard BS: 1400, Grade – PB 2	220 Mpa.	sinee 5%	90 BHN.	
Standard BS: 1400, Grade – PB 4	230 Mpa. 20 5	6%	80 BHN.	
Standard IS: 28-1985, Grade - 1	190 Mpa.	3%	60 BHN.	
Standard IS: 28-1985, Grade - 2	220 Mpa.	3%	70 BHN.	
Standard IS: 28-1985, Grade - 3	190 Mpa.	3%	60 BHN.	
Standard IS: 28-1985, Grade – 4	230 Mpa.	6%	80 BHN.	
Standard IS: 28-1985, Grade – 5	220 Mpa.	5%	90 BHN.	

☆: 11/2/4, Kedarnath Dauty Lane, Kadamtala, Howrah - 711101, West Bengal, India.
: +91 33 2667 4666 □: +91 9831873320 / +91 9903685500 / +91 9433067483
: napenggworks@gmail.com / sales@napenggworks.com / info@napenggworks.com
: napenggworks.com / bronze-casting.com