



**WHITEHOUSE**  
FLEXIBLE TUBING LTD

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MATERIAL CERTIFICATE  
GRADE  
**PHOS. BRONZE PB102 to BSEN1652**

| SPEC   | Cu      | Zn      | Pb      | Ni    | Fe     | P       | Sn     |
|--------|---------|---------|---------|-------|--------|---------|--------|
|        | %       | %       | %       | %     | %      | %       | %      |
| ACTUAL | Balance | 0.14000 | 0.00800 | 0.010 | 0.0090 | 0.05000 | 4.5900 |

| MECHANICAL | YIELD STRENGTH | YIELD STRENGTH | TENSILE STRENGTH | ELONGATION | HARDNESS |     |
|------------|----------------|----------------|------------------|------------|----------|-----|
| ANALYSIS   | 0.20%          | 1.00%          | N/mm2            | A 80%      | HV       | HRB |