

Cu Zn 37 Pb 2

LEADED BRASS

CHEMICAL COMPOSITION :

| | |
|----|------------|
| Cu | 61-62 % |
| Pb | 1.6-2.50 % |
| Zn | balance |

ALLOY DENOMINATIONS :

| | |
|----------------------|----------------|
| MATERIAL N° EN : | CW606 N |
| WN/MATERIAL N° DIN : | Not normalised |
| ROBERT LAMINAGE : | 385 |
| EN : | CU ZN37 Pb2 |
| DIN : | Not normalised |
| AFNOR : | Not normalised |
| UNS* : | C 35300 |

*Unified Numbering System (USA)

PHYSICAL PROPERTIES :

| | | |
|---|-------------------------|----------------------|
| Density 20° C | 8.50 | Kg/dm ³ |
| Melting point | 885-910 | °C |
| Modulus of elasticity, longitudinal | 110 | GPa |
| Thermal Conductivity | 113 | W/M . K |
| Electrical Conductivity | 14.7 | M/Ω mm ² |
| Electrical resistivity | 0.068 | Ω mm ² /M |
| Coefficient of linear expansion from 20 up to 300°C | 20.4 x 10 ⁻⁶ | K ⁻¹ |
| IACS (International Annealed Copper Standard) | 25 | % |

WORKABILITY :

| | |
|---|---------------------|
| Coldworking | Medium |
| Hotworking | Medium (700-760 °C) |
| Machining | Very good |
| Soldering, brazing | Poor |
| Tin soldering | Good. |
| Polishing | Medium |
| Annealing temperature | 425-600 °C |
| Stress relieving heat treatment temperature | 250-350 °C |

MAIN APPLICATIONS :

Stamped components for heavy machining,
Machining of cogs, watch parts, base plate,
turning, drilling, milling

AVAILABLE SIZES :

| | |
|-----------|----------------------|
| Widths | from 2 up to 350mm |
| Thickness | from 0.01up to 3.4mm |

CONDITIONING :

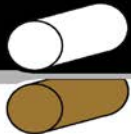
- a) In coils
- b) Cut to length, from 0.5 up to 3 m

TOLERANCES :

Depending on product

QUALITY OF EDGES :

Slit edges



MECHANICAL PROPERTIES :

Cu Zn 37 Pb 2

EN NORM 1652

| TEMPER | THICKNESS | Rm (MPa) | | Rp 0.2 (Mpa) | ELONGATION | | Vickers HARDNESS | |
|--------|-----------|----------|-----|--------------|--------------------------------|----------------------------|------------------|-----|
| | | min | max | | 0.10 up to 2.5 mm A50 % min | above 2.5 mm A100 % min | min | max |
| R290 | ≥ 0.3 | 290 | 370 | (max 200) | 40 | 50 | - | - |
| H060 | ≤ 5 | - | - | - | - | - | 60 | 110 |
| R370 | ≥ 0.3 | 370 | 440 | (min 200) | 19 | 28 | - | - |
| H110 | ≤ 5 | - | - | - | - | - | 110 | 140 |
| R440 | ≥ 0.3 | 440 | 540 | (min 370) | 5 | 12 | - | - |
| H140 | ≤ 5 | - | - | - | - | - | 140 | 170 |
| R540 | ≥ 0.3 | 540 | - | (min 490) | - | - | - | - |
| H170 | ≤ 2 | - | - | - | - | - | 170 | - |