

## SUPERBRONZE

A new alloy “Lo Temp” bronze electrode with excellent weldability for depositing dense and porosity free welds on steel, cast irons, bronzes etc. Both for joining and overlaying. The weld deposits are fully machinable and colour matching to bronze. Deposits offer very good resistance to salt water and steam corrosion and have very low coefficient of friction.

### Applications:

For super conditioning of pump impellers, valves, wear rings, gear teeth, sleeves, packing glands and for dissimilar metal joining applications. Deposits offer very good resistance to saltwater and steam corrosion and have very low co-efficient of friction. Can be machined to smooth finish

### Procedure:

Grinding / degrease the surface. Preheat heavy sections to 150° to 300° C using short arc at minimum amperage deposit stringer beads. Back fill craters and chip slag between passes. Peen deposits and air cool temperature.

|                                    |   |                          |         |
|------------------------------------|---|--------------------------|---------|
| <b><u>Technical Data</u></b>       | : | <b>SUPERBRONZE™</b>      |         |
| Size (mm)                          | : | 3.15                     | 4.0     |
| Recommended Welding Current (Amps) | : | 75-120                   | 110-160 |
| Tensile Strength                   | : | 35 kgf / mm <sup>2</sup> |         |
| Hardness (As deposited)            | : | 75 – 80 HRB              |         |
| (Work Hardened)                    | : | 90 – 95 HRB              |         |
| Tip Colour                         | : | White.                   |         |

### DIFFUSION ENGINEERS LIMITED

Regd. Office & Works I : T-5/6, M.I.D.C, Hingna Industrial Area, Nagpur-440 016, (T) 091-7104-232084, 234727 (F) 232085

Works II : N-78/79, MIDC, Hingna Industrial Area, Nagpur – 440 016. (T) 091-7104-236036

Works III : T-12, MIDC, Hingna Industrial Area, Nagpur – 440 016.(T) 091-7104-232984

Email : info@diffusionengineers.com Website : www.diffusionengineers.com

Branch Offices : Chennai, Faridabad, Jamshedpur, Pune, Raipur, Secunderabad, Vadodara.